

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION

PACT XXP TECHNOLOGIES, AG * Civil Docket No.
* 2:07-CV-563
VS. * Marshall, Texas
*
* May 14, 2012
XILINX, INC. & AVNET, INC. * 8:14 A.M.

TRANSCRIPT OF JURY TRIAL
BEFORE THE HONORABLE JUDGE ROY S. PAYNE
UNITED STATES MAGISTRATE JUDGE

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P R O C E E D I N G S

(Jury out.)

LAW CLERK: All rise.

THE COURT: Good morning. Please be seated.

For the record, we're here this morning for the trial of PACT XPP Technologies versus Xilinx, Et Al., which is Case No. 2:07-563.

It's my understanding that there are some issues that counsel would like to address before we bring the jury in.

So if counsel would make their introductions, we'll address those issues.

MR. GRINSTEIN: Your Honor, Joe Grinstein representing the Plaintiff PACT. I've got my team with me here today.

THE COURT: All right. Thank you, Mr. Grinstein.

MR. BAXTER: Morning, Your Honor, Sam Baxter, and we're ready, Your Honor.

THE COURT: All right. Mr. Grinstein, do you want to start? Do you have issues that the Court needs to address?

MR. GRINSTEIN: Yes, Your Honor. Again,

1 Joe Grinstein representing the Plaintiff, PACT. I've
2 got the first issue and the issue relates to Defendants'
3 opening demonstratives. And I have to say actually this
4 is a pretty serious issue if not, you know, I don't like
5 the looks of the demonstrative, it's not -- you know,
6 it's not the right color.

7 I think we're going to have a very
8 serious Markman 02 issue in this case. And it's
9 suggested to me by the Defendants' demonstratives -- can
10 I have the ELMO, please? Your Honor, there's a series
11 of demonstratives that the Defendants have proposed to
12 show to the jury this morning. I'm showing you one of
13 them. This particular one discusses the re-examination
14 of the PACT '181 patent.

15 THE COURT: Mr. Grinstein, before we get
16 too far into that, can you tell me, do you have other
17 issues? I'd like to get an idea --

18 MR. GRINSTEIN: Oh, I'm sorry.

19 THE COURT: -- of what all we have so
20 that I can make sure we reach what we need to reach.

21 MR. GRINSTEIN: With respect to
22 objections to their demonstratives, my only issue is
23 this 02 issue. I think we have a couple of issues with
24 document objections and deposition objections. I think
25 they're relatively quick.

1 THE COURT: Are those issues that you
2 expect to be material this morning?

3 MR. GRINSTEIN: No. I expect them to be
4 material this afternoon, Your Honor.

5 THE COURT: Okay. And is that it from
6 Plaintiff's side?

7 MR. GRINSTEIN: Yes, Your Honor.

8 THE COURT: Okay. Mr. Baxter, you have
9 other issues that you wanted to raise before we bring in
10 the jury this morning?

11 MR. BAXTER: Yes, Your Honor, there is
12 still I think the Court has had under consideration what
13 has been marked as DX 912, which is the e-mail from Mr.
14 Vorbach and one of his engineers that the Court had
15 carried along. It was the e-mail, Your Honor, in which
16 they said that the --

17 THE COURT: Can you hear all right? Do
18 we need to -- if you could either raise that mic up so
19 that you get mic'd better we'll make a better record.

20 Thank you.

21 MR. BAXTER: All right. Thank you, Your
22 Honor. That was the e-mail, Your Honor, in June of '05
23 which Mr. Marcus Weinhardt sent an e-mail to Mr. Vorbach
24 about the DSP48 which had come out and he said that he
25 looked at it, it didn't have anything to do with XPP.

1 THE COURT: All right.

2 MR. BAXTER: There was a document
3 attached to that e-mail, Your Honor. The document's in,
4 which is the manual for the DSP48. That's in. It was
5 the e-mail that the Court still has under consideration.

6 THE COURT: Any other matters that the
7 defense wanted to raise?

8 MR. BAXTER: That's -- that's all, Your
9 Honor, except for the depositions and -- and a few, I
10 think, exhibit --

11 THE COURT: Okay. Good. Thank you.

12 MR. GRINSTEIN: Oh, Your Honor, I'm -- I
13 don't have complete control of the issues as well as I'd
14 like this morning. We also have a couple of questions
15 to ask about the proper scope of testimony with respect
16 to Your Honor's rulings yesterday on Motions in Limine
17 Number 12 and 13. We want to make sure we don't step
18 somewhere where we're not supposed to step.

19 THE COURT: All right. And do you expect
20 that to be an issue that will come up in the morning
21 session?

22 MR. GRINSTEIN: I would like to be
23 careful. I don't want to go somewhere where I'm not
24 supposed to go on opening --

25 THE COURT: All right.

1 MR. GRINSTEIN: -- so I think those I
2 probably should be careful about, Your Honor.

3 THE COURT: All right. Well, let's drop
4 back, then, to the demonstrative that you were starting
5 to address.

6 MR. GRINSTEIN: Your Honor, one of the
7 demonstratives that the Defendants intend to put before
8 the jury is this demonstrative that discusses what was
9 said in the re-examination of one of PACT's patents.
10 And the obvious point behind this demonstrative is to
11 argue to the jury what the claims of PACT's patents
12 mean.

13 In fact, there are several demonstratives
14 just like this one, there's a demonstrative right here
15 that discusses the summary of the patent; demonstrative
16 right here that talks about the abstract of the patent.
17 The re-examination file history is potentially relevant
18 to three possible issues, Your Honor.

19 Issue No. 1 is if there was a prosecution
20 history, estoppel issue or a DOE issue, then statements
21 from the re-examination file history would be proper.
22 That's not the case here. DOE has been limined out.
23 Second re-examination is relevant to prior art, what was
24 before the Patent Office on the prior art, what wasn't,
25 what the Patent Office decided. That's not the issue

1 right here. This is not discussing prior art.

2 The third relevance of re-examination
3 history is to use that history to define what the claims
4 mean, and that is exactly what the Defendants mean to do
5 with this particular exhibit.

6 What they are talking about is trying to
7 define what the bus system in our patents mean, what the
8 bus interface, what bus system control, all of these
9 things that are underlined they intend to argue to the
10 jury, Your Honor -- Ladies and Gentlemen of the Jury,
11 PACT's patents cover an invention which means this and
12 you can see what that invention means by looking at the
13 re-examination file history.

14 That's the exact same thing that they do
15 with these other exhibits, the summary, the abstract.
16 They're arguing claim meaning, and that is not a proper
17 issue for the jury under Markman and it's not a proper
18 issue for the jury under 02.

19 It is error to allow the Defendants to
20 get before the jury and argue to the jury that the
21 claims mean anything other than what the claim language
22 says and what Your Honor's definitions of those claim
23 language is. They can't get up here and argue I know
24 what the claim language says, but Ladies and Gentlemen
25 of the Jury, look at this stuff and that will help you

1 understand what the definitions and constructions are.

2 That can't be a proper use of this type of evidence.

3 Now, I'm not saying that there isn't a
4 proper use for some reason for the re-examination; in
5 fact, it's very relevant to prior art. I'm not saying
6 that looking at the patents and the abstracts and
7 drawings aren't relevant to some potential issues in
8 this case, but they are certainly not relevant to
9 rearguing claim meaning to the jury. That is a province
10 exclusively of this Court, not of Defendants' counsel.

11 THE COURT: All right. Mr. Baxter?

12 MR. BAXTER: I guess this will be the
13 first patent case I've ever seen, Judge, where they say
14 we're going to put the patent in evidence but you can't
15 show the jury anything from the patent, which is what
16 their argument really is. We're not rearguing the claim
17 language, what we're trying to do, Your Honor, you know
18 all the slides they have with the fences, we're just
19 trying to find those fences for the jury. And we're
20 trying to tell the jury, look, here's what they told the
21 Patent Office and here's what they told the world the
22 patent is about.

23 In the re-exam, it's why we believe, in
24 fact, the re-exam was granted and then why it was issued
25 over our opposition is that they put language in there

1 that moved the fences in a narrow way. And so it's not
2 rearguing the claim language at all, Your Honor, it's
3 simply saying this is what they told the Patent Office
4 their patent was about.

5 And certainly we get to show the jury the
6 abstract and the summary of the invention that the
7 inventors swore was true when he filed his invention and
8 that's all we're using it for.

9 THE COURT: And are you going to be
10 arguing to the jury that the interpretation of the
11 claims should be based on what you're pointing out to
12 them?

13 MR. BAXTER: No, Your Honor, I'm simply
14 going to argue to the jury that they told the Patent
15 Office and told the world when they filed their patent
16 that as far as their bus system control is -- is in the
17 Patent Office -- in the patent in the Patent Office, it
18 didn't have to have any programming by the programmer,
19 is what they told the Patent Office. And -- and
20 that's -- doesn't contradict anything in the Court's
21 claim construction.

22 THE COURT: All right. Mr. Grinstein?

23 MR. GRINSTEIN: Your Honor, I feel like
24 I could package up Mr. Baxter's argument and send it
25 straight to the Federal Circuit and that would be a

1 point of reversible error. I mean, Mr. Baxter just said
2 that he wants to argue the re-examination file history,
3 he wants to argue the abstract of the patent to, quote,
4 find the fences for the jury. It is not his job to find
5 the fences for the jury, Your Honor, it is your job to
6 find the fences for the jury.

7 Judge Everingham already found the fences
8 for the jury, Your Honor continues to -- to play that
9 role. But to get up here and use the re-examination and
10 say, you know, PACT claimed that its invention was X, Y
11 or Z, so therefore you the jury shouldn't find
12 infringement because look, PACT claimed it was X, Y or
13 Z, that is purely rearguing Markman. I -- I wouldn't
14 know how to describe it more cleanly than rearguing
15 Markman.

16 The only thing that defines the invention
17 are the claims of that patent and this Court's claim
18 constructions. And to get up here and argue that, well,
19 PACT can't get up here, is estopped from claiming
20 otherwise or PACT made inconsistent statements, those
21 were all arguments for Markman. That time has come and
22 passed, and we cannot have a jury trial here where both
23 sides are getting up and rearguing what the claims mean.

24 THE COURT: All right. With respect to
25 your next objection that you wanted to raise for this

1 morning, let's go ahead and get them all in.

2 MR. GRINSTEIN: Your Honor, Mr. Lahad is
3 going to handle this. This is the exhibit issues. We
4 have one particular issue with a slide which we've
5 worked out with counsel, so Mr. Lahad will go next.

6 THE COURT: All right.

7 MR. LAHAD: Good morning, Your Honor,
8 John Lahad for the Plaintiff PACT. I believe the
9 Defendants have some deposition designation objections,
10 but I'd like to bring up a couple of points or seek some
11 clarification on two points from Your Honor's limine
12 rulings --

13 THE COURT: All right.

14 MR. LAHAD: -- yesterday. Again, I
15 just -- they're fairly clear, but I want to be extra
16 clear. In docket 357, which is the order on the
17 parties' motions in limine with respect to Defendants'
18 Motion in Limine No. 1, the Court said -- it granted as
19 modified the motion and said no reference shall be made
20 to the specific amount of revenue or profit earned from
21 the accused products or in total. Your Honor, we have
22 no intention of mentioning billions or millions of total
23 revenues or profits.

24 My main concern is average selling price,
25 and the use of average selling price was discussed

1 heavily throughout the briefing on Defendants' motion to
2 strike our damages expert, Mr. Nawrocki. In the order
3 on that motion, the Court denied the motion and said
4 that the entire market value rule was not applied and so
5 I'd -- I'd just like to get some clarification on where
6 the Court stands on average selling price as it relates
7 to --

8 THE COURT: Average selling price of?

9 MR. LAHAD: -- the accused products.

10 THE COURT: You're talking specifically
11 about the Defendants' chip; is that what we're
12 discussing here?

13 MR. LAHAD: Yes, sir.

14 THE COURT: And what -- what evidence do
15 you want to offer on that?

16 MR. LAHAD: Simply the average selling
17 price of the accused products, Your Honor.

18 THE COURT: Which is what?

19 MR. LAHAD: Which is approximately \$211.
20 I'll add that Defendants' expert similarly uses the
21 average selling price of the accused products, albeit on
22 a --

23 MR. CASSADY: I tried to search -- search
24 what it is, Your Honor. We're not going to have any
25 objections to the reference of the average selling price

1 as long as it doesn't go further than that. I just
2 don't want somebody bringing up they sold this many
3 million chips next to \$230 times equals this many
4 billions, that's what I don't want.

5 THE COURT: All right. Does that provide
6 the extra clarification, Mr. Lahad?

7 MR. LAHAD: Yes, it does, Your Honor.

8 THE COURT: Okay. Good.

9 MR. LAHAD: My second question relates to
10 the Court's ruling on Defendants' Motion in Limine 12,
11 which was -- dealt with the RocketChip's acquisition and
12 I understand that the acquisition price requires leave
13 from the Court.

14 The second part of that order, and I'm
15 looking at docket 358, the second part of that order
16 references projected revenues from the RocketChip's
17 acquisition, and I'm not trying to parse the language of
18 the order too much, but I'm wondering if the Court is
19 making any kind of distinction between revenues and
20 profitability projections -- revenue projections and
21 profitability projections?

22 It doesn't mention it in the order. I
23 know it was in the briefing and so it's clear from the
24 order that, you know, revenues or projected revenues
25 from the RocketChip's acquisition, you know, as the

1 Court said if that revenue projection is incremental
2 revenue related to the alleged infringement, then the
3 Court is inclined to admit the evidence. The -- the
4 order is silent on profitability and profitability
5 projections.

6 THE COURT: And what -- specifically what
7 evidence with respect to profitability projections are
8 you seeking to use?

9 MR. LAHAD: That it's simply a
10 percentage, Your Honor, by incorporating this acquired
11 technology Xilinx expected profitability to increase by
12 such and such percent, and I won't be arguing by 300
13 million or 400 million or any of the large numbers that
14 Defendants are concerned about.

15 THE COURT: All right.

16 MR. LAHAD: I don't know if Mr. Cassady
17 can short circuit this one as well.

18 MR. CASSADY: Not this time, Your Honor.

19 THE COURT: Frankly I don't think that
20 what he's describing runs afoul of what our concern was.
21 So I -- if -- if your evidence is going to be within
22 what you described now --

23 MR. LAHAD: Yes.

24 THE COURT: -- that's not a problem
25 under our ruling.

1 MR. LAHAD: Thank you, sir. That's all
2 I have.

3 THE COURT: All right.

4 MR. CASSADY: Your Honor, just -- just
5 so I understand and make clear, we're talking about just
6 percentages, right, not dollar figures?

7 MR. LAHAD: That -- I don't plan to use
8 dollar figures, Your Honor.

9 THE COURT: All right. Any other issues
10 for the Plaintiff before we start?

11 MR. GRINSTEIN: No, Your Honor.

12 THE COURT: All right. Mr. Baxter, did
13 you have other issues that you wanted to raise before
14 the morning session?

15 MR. AROVAS: Your Honor, maybe I can get
16 up and just raise the -- the issues. I think there
17 are -- is one open issue on the question of deposition
18 designations. There are also some objections to
19 witnesses -- I'm sorry, documents that will be used with
20 one of the expert witnesses potentially in the
21 afternoon. I'm not sure if you want to address all
22 those this morning.

23 THE COURT: If you want to you -- you can
24 go ahead and get them out on the table, so to speak, but
25 I don't know that we need to address them before we

1 start this morning, but what -- what are --

2 MR. AROVAS: Okay.

3 THE COURT: -- the issues?

4 MR. AROVAS: So I'll just get them on the
5 record. So --

6 THE COURT: Okay.

7 MR. AROVAS: -- with regard to the
8 Plaintiff's technical expert witness, Dr. Tredennick
9 there are a number of documents we will be objecting to
10 as not in the expert report. And as I understand the
11 issue, just to encapsulate it for Your Honor, is that
12 there were a number of schematics that based on the
13 production date, I think, were produced after the scope
14 of the -- after the expert reports were filed.

15 No supplemental expert report was done
16 and we just don't want to be in a position learning
17 about documents that an expert is going to use for the
18 first time on the stand and so we think there should be
19 a clean rule in the case documents that are in a -- a
20 witness' expert report as long as pre-admitted can be
21 used. Documents that are not in an expert witness'
22 report shouldn't be used and that's how I understand the
23 issue.

24 THE COURT: Well, no exhibit should be
25 used that have not been tendered to the other side. Are

1 you -- have you been tendered exhibits that you're
2 objecting to on that basis?

3 MR. AROVAS: Yeah, we have the exhibits,
4 they're just not in the witness' expert report.

5 THE COURT: And did you raise those
6 objections earlier in the process?

7 MR. AROVAS: Well, we just found out last
8 night that these -- that these documents were going to
9 be used with this expert witness. So the --

10 THE COURT: Well, I'm not sure what you
11 mean by found out they're going to be used. Were they
12 on the exhibit list?

13 MR. AROVAS: They're documents that are
14 on the exhibit list, yes.

15 THE COURT: And was an objection made?

16 MR. AROVAS: No, there's no objection to
17 the documents being used in the case. For example, they
18 could -- they're -- they're -- by the way, they're
19 Xilinx's documents, so they could cross examine our
20 witnesses on them and there's no objection to them cross
21 examining our witnesses on those documents.

22 The issue we have is the night before
23 witnesses go on the stand, each side tenders or -- or
24 gives a list of the exhibits they plan to use with each
25 witness. So this was the first time we learned that the

1 expert is going to give expert opinions on these
2 particular documents.

3 THE COURT: So you had no notice, you're
4 saying, that this expert had considered these documents?

5 MR. AROVAS: Exactly, Your Honor, or
6 would use them as the basis for his opinion.

7 THE COURT: All right. Let me hear from
8 the Plaintiff, then, on that.

9 MR. GRINSTEIN: Your Honor, these
10 documents relate to the expert report of Dr. Nick
11 Tredennick, our infringement expert. In his expert
12 report he said Xilinx has not produced to me specific
13 schematics as of the time of my report; therefore, I
14 reserve the right to rely upon those schematics and look
15 at them after Xilinx produces them, but you put me in
16 the position of me filing a report and not being able to
17 discuss them.

18 So we plainly put them on notice that we
19 were interested in these schematics, that Dr. Tredennick
20 would review them and they took his deposition after he
21 issued his report. So I don't see what the notice,
22 particular notice issue --

23 THE COURT: All right.

24 MR. GRINSTEIN: -- here is.

25 THE COURT: Let me just make sure I

1 understand. Are you saying he reviewed those schematics
2 before his deposition?

3 MR. GRINSTEIN: I believe that's the
4 case, yes.

5 THE COURT: All right. And did he
6 testify in his deposition about them?

7 MR. GRINSTEIN: I don't think that's the
8 case. I don't think he was asked about them.

9 THE COURT: Did he ever -- did he or you
10 ever issue any supplemental report or other notice that
11 he had after his report --

12 MR. GRINSTEIN: No, Your Honor --

13 THE COURT: -- examined those?

14 MR. GRINSTEIN: -- we did not. The only
15 notice that we issued was in the report saying when they
16 produced them, I am going to consider them. And, I
17 mean, this -- Your Honor, this is four schematics out of
18 hundreds. They knew that we wanted them. I mean,
19 there's -- I -- I guess we should have filed a
20 supplemental report. On the other hand, we told them
21 that we wanted these things and some of the blame is
22 with them for not producing them before the report.

23 THE COURT: I understand that, but I
24 think it's pretty basic that if your expert examines
25 additional materials after that affect his opinions, he

1 has to supplement his report. If he had testified about
2 that at the deposition, then I -- I might say no harm,
3 no foul. But if they didn't have any notice that they
4 needed to examine him about those schematics at his
5 deposition, then, I mean, that's the purpose of the
6 reporting rule.

7 MR. GRINSTEIN: I -- I understand, Your
8 Honor. Respect the ruling. I just push back a little
9 and said we did give them notice that he would be
10 looking at them.

11 THE COURT: That he was going to?

12 MR. GRINSTEIN: He was going to look at
13 them. It was their fault for not producing them before
14 his report.

15 THE COURT: I understand that, but I -- I
16 think that we do have to observe that line, that the
17 expert needs to provide notice about what he's
18 considering, and if he hadn't done that, then he won't
19 be allowed to testify about those documents.

20 MR. GRINSTEIN: Yes, sir.

21 THE COURT: What else?

22 MR. AROVAS: The -- the second issue,
23 Your Honor, relates to deposition designations, and in
24 the Court's pre-trial proceedings, we had times that the
25 parties were supposed to exchange deposition

1 designations, counters, counter counters, that whole
2 process so that the parties had adequate time to prepare
3 their cases based on what was going to potentially come
4 into evidence and prepare counters and package
5 everything up for the jury.

6 In the most recent exchange of what was
7 supposed to be the cut down list of deposition
8 designations to actually be used in the case, PACT has
9 now gone beyond their original deposition designations,
10 done some entirely new designations that were never
11 identified in -- in advance of the pre-trial process.
12 And obviously that puts us in the position just days
13 before trial now trying to deal with new deposition
14 testimony and, you know, issues that could be raised by
15 that.

16 So the objection is to PACT adding to the
17 deposition designations that it exchanged in the
18 pre-trial process.

19 THE COURT: And these are same witnesses,
20 just additional passages?

21 MR. AROVAS: That's -- that's right, Your
22 Honor.

23 THE COURT: All right. And who can speak
24 to that for the Plaintiff? Mr. Lahad?

25 MR. LAHAD: Yes. Thank you, Judge.

1 First of all, I think that this -- this
2 issue applies only to a single deponent, and that's Mr.
3 Wittig. I think we've reached agreement on the other
4 deponents. Ostensibly Defendants want to marry us to
5 our July 2011 designations. That was about a year ago.
6 A lot has happened in this case. And as I understand
7 their argument, it's -- it's one of notice.

8 A year ago when we did a -- initially
9 exchanged deposition designations, I'll admit that this
10 witness' designations were a little different, didn't
11 include the ones at issue today. But at the same time,
12 if they're trying to ascribe a certain level of holiness
13 or sanctity to these July 2011 designations --

14 THE COURT: When did you first give them
15 notice of the additional designation?

16 MR. LAHAD: Yesterday. Two days ago.

17 THE COURT: And how much additional
18 language are we talking about?

19 MR. LAHAD: I think it's a handful of
20 pages, two or three pages worth.

21 THE COURT: And what's the reason for
22 adding those two or three pages?

23 MR. LAHAD: I think just the -- the
24 contours of the case changed somewhat, and you know, in
25 the -- in the past year the scope of the case as far as

1 patents at issue, as far as accused products at issue.

2 THE COURT: Unless you have some argument
3 of some extraordinary need for this, I -- I think that
4 yesterday's too late to add designations. If you want
5 to give me a copy of them, I'll look at them and see
6 if -- if you think you can show some good cause for the
7 lateness of it, but --

8 MR. LAHAD: I'll be happy to do that,
9 sir.

10 THE COURT: All right. That's fine. I
11 assume that is --

12 MR. LAHAD: That shouldn't affect
13 anything this morning, Your Honor.

14 THE COURT: Okay. Well then, I'm going
15 to take the matter regarding the demonstrative exhibit
16 under advisement, and I'll be back in a few minutes and
17 let you know.

18 We are planning to bring the jury in and
19 out of the courtroom through that side door. We've
20 moved the tables to try and accommodate that. It's much
21 more convenient for the jury. I know it's going to be a
22 slight inconvenience to your side, but if you can just
23 be aware that we want to keep a path open through there,
24 I'd appreciate it. And if you -- if you could refrain
25 from tripping them, that'll -- that'll also help out

1 long-term. So we'll take a recess at this time.

2 LAW CLERK: All rise.

3 (Recess.)

4 (Jury out.)

5 LAW CLERK: All rise.

6 THE COURT: Thank you. Please be seated.

7 Before we bring in the jury, I want to address the items
8 that remain from this morning's discussion. With
9 respect to DX 912, I've had a chance to look at that
10 again, and that will be excluded at this time, unless
11 the defense believes that Mr. Vorbach opens the door to
12 that, in which case you can approach and we'll discuss
13 it at that time.

14 For the record, I think that his belief
15 as to whether infringement has occurred is of
16 questionable relevance, but if that matter is explored,
17 then it may be proper as to that.

18 With respect to the use of the
19 demonstratives, I do believe that the proper argument
20 about the meaning of the claim terms is their plain and
21 ordinary meaning, other than the construction that's
22 been given by the Court. I don't believe that
23 prosecution history can be allowed to vary that meaning,
24 other than through the claim construction process. So
25 the Defendant -- the Plaintiff's objection to the use of

1 those demonstratives during opening statement is
2 sustained.

3 And with that, we'll bring in the jury.
4 I have probably 20 minutes of preliminary instructions
5 to give them, and then we'll turn to the opening
6 statements. And I would like to hand out the juror
7 notebooks during the preliminary instructions, so if
8 those are ready, I'd ask that we get those to Ms.
9 Lockhart.

10 MR. AROVAS: Your Honor, could I just
11 ask for one clarification on this issue with regard to
12 some of the opening demonstratives?

13 THE COURT: Okay.

14 MR. AROVAS: And the reason I'm asking is
15 because, you know, obviously like -- like many patent
16 cases, there will be a number of witnesses talking about
17 the background of the invention, where it came from, the
18 problem, the solution, that sort of thing. Obviously,
19 the specification is the background, it's the written
20 description of what they did.

21 We do believe that everything in there is
22 entirely consistent with the ordinary meaning of the
23 terms, whether in the claim construction or not in the
24 claim construction, and have no intent to contradict the
25 claim construction at all. However, this issue will

1 come up again later with the witnesses. Obviously, both
2 inventors are going to be testifying. I can say for
3 sure at least one is going to testify about the problem
4 he had to solve and how he came up with that solution,
5 his ideas, and I just want to make sure that this ruling
6 is not more expansive than just any suggestion of
7 contradiction of the claim construction or the
8 prosecution history itself.

9 THE COURT: I'm not worried about it.
10 Its use during the questioning of the witnesses, I think
11 we can handle that pretty easily at that time. I
12 understand that you're going to be addressing that
13 through your experts, and we -- you know, that's
14 expected, but I am concerned about introducing it in
15 opening statements in that manner.

16 MR. AROVAS: Okay. Now, that's the --
17 the prosecution history. Is the -- with regard to the
18 specification, can the specification be used in opening
19 statement to give a background for the invention, say
20 here is the problem they were trying to solve and here's
21 their idea about solving it?

22 Obviously, the claim construction will be
23 used independently and say this is -- and it's our
24 position, we think it's a great claim construction and
25 we're going to embrace it and do not intend in any way

1 to contradict it.

2 THE COURT: Well, that -- I don't have an
3 objection that I'm aware of to that use of the
4 specification.

5 Mr. Grinstein?

6 MR. GRINSTEIN: I want to be clear, Your
7 Honor, when I mention the prosecution history I then
8 flip forward to the abstract, their abstract of the
9 patent slide, and said that they were doing the exact
10 same thing.

11 I mean, I know that the specification has
12 usefulness in the trial, but the usefulness of it in
13 citing to spec cites and saying this is what the
14 invention means and jury when you're considering what
15 the invention means, you should consider these spec
16 cites, that's a Markman issue, it is not a -- it's not a
17 jury issue. So they're -- what I -- I fear is going to
18 happen is they'll try to slide in claim construction by
19 this argument of background.

20 I know what these claim terms mean, I
21 know what this means, but trust me, the real thing he
22 was trying to solve was, you know, making a green car
23 and this is not a green car case.

24 THE COURT: I think they have to be able
25 to talk about the specifications. I'm not going to --

1 the slides that you showed me were about the re-exam
2 history and that's what I was addressing.

3 MR. GRINSTEIN: Thank you, Your Honor.
4 And before we start openings, I've got a very mundane
5 issue. Your Honor's rule about counsel's activities, is
6 it the standard an arm's length away from the podium? I
7 don't want to run afoul of, you know --

8 THE COURT: If you're big enough here you
9 can get to the jury box from -- in an arm's length. So
10 what I would ask you to do is to not get closer to the
11 jury than the podium is, all right?

12 MR. GRINSTEIN: Halfway line there.

13 THE COURT: And I don't care if you
14 wander --

15 MR. GRINSTEIN: Won't cross it.

16 THE COURT: -- all the way back to the
17 wall in the other direction, but if you -- if you would
18 not -- I really think the jury would object to your
19 invading their space anyway. It's not just my rule. I
20 think they want you to stay, you know, that far away.

21 MR. GRINSTEIN: I understand, Your
22 Honor.

23 THE COURT: Not you specifically.

24 MR. GRINSTEIN: No offense taken.

25 THE COURT: All right. In that case,

1 we'll bring in the jury. Please rise.

2 (Jury in.)

3 THE COURT: Good morning. Please be
4 seated.

5 Ladies and Gentlemen, I want to welcome
6 you back this morning. I want to thank you for being
7 here on time. We're going to try to keep the case
8 running on time so that we can stick to the schedule
9 that I told you about during the jury selection two
10 weeks ago. I do have some preliminary instructions that
11 I want to give you this morning before we start with the
12 opening statements from the lawyers and get on to the
13 evidence.

14 You have now been sworn as the jurors in
15 this case, and as the jury, you will decide all of the
16 facts in the case. I will, as the Judge, give you
17 instructions on the law, decide any questions of law
18 that come up during the trial, and -- and handle matters
19 of procedure, and at the end of the evidence, I'll give
20 you detailed instructions about the law that you're to
21 apply in deciding the case, and I'll give you a list of
22 questions that you're to answer. Your answers to the
23 questions will need to be unanimous.

24 I want to tell you a little bit about
25 what this case is about. This case involves a dispute

1 relating to two U.S. patents. Before summarizing the
2 positions of the parties and the issues involved, I want
3 to take a minute to explain again for you what a patent
4 is and how it is obtained. Patents are granted by the
5 U.S. Patent and Trademark Office, which is referred to
6 often as the PTO.

7 A valid U.S. patent gives the
8 patentholder the right for up to 20 years from the date
9 the patent application was filed to prevent others from
10 making, using, offering to sell, or selling the patented
11 invention within the United States or from importing it
12 into the United States without the patentholder's
13 permission.

14 A violation of the patentholder's right
15 is called infringement. The patentholder may try to
16 enforce a patent against persons believed to be
17 infringers by a lawsuit filed in federal court.

18 The process of obtaining a patent is
19 called patent prosecution. To obtain a patent, you must
20 first file an application with the PTO, which is an
21 agency of the federal government that employs trained
22 examiners who review applications for patents. The
23 application includes what is called the specification,
24 which contains a written description of the claimed
25 invention, telling what the invention is, how it works,

1 how to make it, and how to use it.

2 The specification concludes with one or
3 more numbered sentences and these are what you'll hear
4 about as the patent claims. And I'll show you in a few
5 minutes the patents involved in this case and the claims
6 involved. Once a patent is granted by the PTO, the
7 numbered claims define the boundaries of its protection
8 and give notice to the public of what those boundaries
9 are.

10 After the applicant files the
11 application, an examiner reviews the application to
12 determine whether or not the claims are patentable and
13 whether they're appropriate for patent protection and
14 whether or not the specification adequately describes
15 the invention that's claimed.

16 In examining a patent application, the
17 examiner reviews certain information about the state of
18 the technology at the time the application was filed.
19 The PTO searches for and reviews information that is
20 already publicly available or that is submitted by the
21 applicant. This information is called the prior art.
22 The examiner reviews this prior art to determine whether
23 or not the invention is truly an advance over the state
24 of the art at the time. Prior art is defined by law,
25 and I'll -- I'll give you specific instructions as to

1 what constitutes prior art. However, in general, prior
2 art includes public information that existed before the
3 claimed invention was made or more than one year before
4 the application was filed. A patent lists the prior art
5 that the examiner considered, and this is -- this list
6 is called the cited references.

7 After the prior art search and
8 examination of the application, the examiner informs the
9 applicant in writing of what the examiner has found and
10 whether the examiner considers any claim to be
11 patentable and thus would be an allowed claim. This
12 writing from the examiner is called an office action.

13 If the examiner rejects the claims, the
14 applicant has an opportunity to respond to the examiner
15 and to try and persuade the examiner to allow the claims
16 or to change the claims or submit new claims. This
17 process may go back and forth for some time until the
18 examiner is satisfied that the application meets the
19 requirements for a patent and the application issues as
20 a patent or that the application should be rejected and
21 no patent should issue.

22 Sometimes patents are issued after
23 appeals within the PTO or even to a Court. The papers
24 generated during these communications between the
25 examiner and the applicant are called the prosecution

1 history.

2 After a patent has been issued, third
3 parties, who are people other than the applicant, may
4 ask the PTO to reconsider the issuance of a patent.
5 This process is referred to as re-examination. A third
6 party initiates the re-examination process by filing a
7 re-examination request at the PTO, which can include
8 submitting new prior art. If the PTO agrees with the
9 requester that there's a substantial new question of
10 patentability, the PTO will re-examine the patent.

11 The re-examination process proceeds in
12 much the same way as the original prosecution. The PTO
13 issues office actions that set forth its analysis and
14 conclusions, and the patent owner is allowed to respond,
15 amend claims, or add new claims. If the PTO agrees that
16 the claims are patentable, it issues an official
17 re-examination certificate.

18 The fact that the PTO grants a patent
19 does not necessarily mean that any invention claimed in
20 the patent, in fact, deserves the protection of a
21 patent. While the issued patent is presumed valid, a
22 person accused of infringement has the right to argue
23 here in federal court that a claimed invention in the
24 patent is invalid because it does not meet the
25 requirements for a patent.

1 It's your job to consider the evidence
2 presented by the parties at this trial and determine
3 independently whether or not the patent is invalid.

4 To help you follow the evidence, I'll
5 give you a summary of the positions of the parties. The
6 parties in this case are PACT XPP Technologies, AG,
7 which the parties and I will refer to as PACT, P-A-C-T,
8 and Xilinx, Inc., and Avnet, Inc., which the parties and
9 I will refer to as Xilinx.

10 The case involves U.S. Patent Nos.
11 6,119,181 and 6,338,106, and you don't have to try and
12 learn all those numbers. Those patents were obtained by
13 Martin Vorbach and Robert Munch and transferred by them
14 to PACT. For your convenience, the parties and I will
15 refer to these patents by their last three numbers,
16 namely, as the '181 patent and the '106 patent.

17 PACT filed suit in this Court seeking
18 money damages from Xilinx for allegedly infringing the
19 '181 and '106 patents by making, using, selling, or
20 offering for sale in the United States products that
21 PACT argues are covered by four claims of the '181
22 patent, and I'll point those out to you in a moment.
23 Those are claims number 1, 3, 17 and 30. You don't have
24 to remember those numbers now. And by one claim of the
25 '106 patent, which is Claim 8.

1 PACT also argues that Xilinx has actively
2 induced infringement of these claims by other people.
3 Xilinx denied -- denies that it has infringed these
4 claims and Xilinx also argues that these claims are
5 invalid.

6 I will instruct you later as to the ways
7 in which a patent may be invalid, but in general, a
8 patent is invalid if it is not new or is obvious in view
9 of the prior art at the relevant time. A patent is also
10 invalid if its specification is not detailed enough to
11 demonstrate that the applicant actually possessed the
12 invention as broadly as claimed in the numbered claims
13 of the issued patent.

14 Your job will be to decide whether or not
15 those claims, Claims 1, 3, 17, and 30 of the '181 patent
16 and Claim 8 of the '106 patent have been infringed and
17 whether or not those claims are invalid.

18 If you decide that any claim of the '181
19 patent or the '106 patent has been infringed and is not
20 invalid, you'll need to consider whether PACT has an
21 obligation to notify Xilinx of the alleged infringement,
22 and I'll tell you more about that, and to decide any
23 money damages to be awarded to PACT to compensate it for
24 the infringement.

25 You'll also need to make a finding as to

1 whether or not the infringement was willful. If you
2 decide that any infringement was willful, that should
3 not affect any damage award you give. I'll take
4 willfulness into account later if you find that it
5 exists.

6 I have already for the Court determined
7 the meaning of the claims of the two patents that are at
8 issue. You'll be given a document in a moment that
9 reflects those -- those constructions, those meanings
10 that I have determined.

11 For any claim term which I've not
12 provided you with a definition in this document, then
13 you should simply apply the ordinary meaning to that
14 term. You are to follow my definitions of the terms
15 throughout the case. However, my interpretation of the
16 language of these claims should not be taken by you as
17 an indication that I have any view one way or the other
18 regarding issues of infringement and invalidity. Those
19 issues are for you to decide. And I will provide you
20 with more detailed instructions on the meaning of these
21 claims at the end of the trial before you begin your
22 deliberations.

23 In deciding the issues that are before
24 you, you'll be asked to consider specific legal rules,
25 and I'll give you an overview of those rules now and

1 then much more detailed instructions later.

2 The first issue you'll be asked to decide
3 is whether Xilinx has infringed the claims of the '181
4 patent or the '106 patent. Infringement is assessed on
5 a claim-by-claim basis, and there are, as I've told you,
6 five claims between the two patents at issue here.

7 Therefore, you may find that there is
8 infringement as to one claim but not infringement as to
9 another.

10 There are a few different ways that a
11 patent may be infringed, and I'll give you more details,
12 but generally, Xilinx may infringe either of these
13 patents by making, using, selling, or offering for sale
14 in the United States or importing into the United States
15 a product that meets all of the requirements of one of
16 the numbered claims. Xilinx may also indirectly
17 infringe these patents by inducing another person or
18 company to infringe them.

19 Another issue you'll be asked to decide
20 is whether either of these patents is invalid. A patent
21 may be invalid for a number of different reasons
22 including because its claims -- it claims subject matter
23 that is not new or is obvious. For a claim to be
24 invalid because its not new, Xilinx must show by clear
25 and convincing evidence that all of the elements of a

1 claim are present in a single previous device that was
2 publicly used or sold or sufficiently described in a
3 single previous printed publication or patent. And,
4 again, those are what we call prior art. If a claim is
5 not new, it is said to be anticipated.

6 Another way that a claim may be invalid
7 is that it may have been obvious. Even though every
8 element of a claim is not shown or sufficiently
9 described in a single piece of prior art, the claim may
10 still be invalid if it would have been obvious to a
11 person of ordinary skill in the field of technology of
12 the patent back at the relevant time.

13 You'll need to consider a number of
14 questions in deciding whether the inventions claimed in
15 the '181 patent or the '106 patent are obvious. And
16 I'll provide you more detailed instructions at the end
17 of the case.

18 A patent may also be invalid if its
19 description in the specification does not meet certain
20 requirements. To be valid, a patent must meet the
21 written description requirement. In order to meet this
22 written description requirement, the description of the
23 invention in the specification portion of the patent
24 must be detailed enough to demonstrate that the
25 applicant actually possessed the invention as broadly as

1 claimed in those numbered claims of the issued patent.

2 If you decide that any claim of the '181
3 patent or the '106 patent has been infringed and is not
4 invalid, you'll need to decide any money damages to be
5 awarded to PACT to compensate it for the infringement.
6 A damages award should be no less than what PACT would
7 have received if it had been paid a reasonable royalty.

8 I'll instruct you later on the meaning of
9 a reasonable royalty, but the damages you will award are
10 meant to compensate PACT and not to punish Xilinx. You
11 may not include in your award any additional amount as a
12 fine or penalty above what is necessary to compensate
13 PACT for the infringement. I'll give you more detailed
14 instructions on calculations at the end.

15 Now, you're going to be hearing a number
16 of witnesses in this case, and I want you to keep an
17 open mind while you're listening to the evidence and not
18 decide any facts until you've heard all of the evidence.

19 While the witnesses are testifying,
20 remember that you will be the ones who have to decide
21 the believability of the witnesses.

22 So while they're testifying, you should
23 be asking yourself does the witness impress you as
24 truthful? Does he or she have a reason not to tell the
25 truth? Does he or she have any personal interest in the

1 outcome of the case? Does the witness seem to have a
2 good memory? Did he have the opportunity and ability to
3 observe accurately the things testified about? Did the
4 witness appear to understand the questions clearly and
5 answer them directly? And, of course, does the witness'
6 testimony differ from that of other witnesses?

7 These are the sorts of things you should
8 be thinking about while you're listening to each of the
9 witnesses. You'll need to pay close attention to the
10 testimony because you'll have to rely on your memory.

11 The court reporter here is taking down
12 what is said, but that transcript will not be ready in
13 time for your deliberations. It's prepared in the event
14 that there's an appeal to some higher court that has to
15 review this. So you'll each have to rely upon your
16 memories.

17 In a moment, you're going to be given a
18 notebook. One of the things in the back of that
19 notebook are blank pages that you can use to take notes.
20 I see that you have steno pads now. It's up to each of
21 you to decide whether or not you want to take notes and
22 how detailed you want your notes to be. But remember
23 that those notes are for your own personal use. You
24 have to rely on your own memory of the evidence. You
25 should not abandon your recollection because somebody

1 else's notes indicate something different. The notes
2 are to refresh your recollection and -- and that's the
3 reason for which you should be keeping them.

4 I'm going to ask our courtroom deputy,
5 Jan, if she'll hand out these juror notebooks for each
6 of you. In those notebooks you'll see that you each
7 have a copy of the two patents that we've talked about,
8 the '181 and the '106, and I want you in a moment to
9 turn to those and I'll show you something.

10 COURTROOM DEPUTY: They're all numbered.

11 THE COURT: You want to help her? Yeah.

12 They are numbered 1 through 8 because
13 y'all are known as Jurors 1 through 8.

14 You'll see when you open it that the
15 first tab is patent number '181, and you'll see at
16 the -- that we have highlighted the last three numbers
17 at the top right-hand corner up there, that that's where
18 the '181 comes from.

19 If you turn in that document, you'll see
20 that toward the back, there are numbers at the top of
21 the pages starting with 1, 2, that are numbering the
22 columns, and if you turn to the page that has the 12 at
23 the top of the column and you go about halfway down that
24 column, a little past halfway down, you'll see that it
25 says what is claimed is, and the No. 1 there should be

1 highlighted because that's Claim No. 1 that we talked
2 about. And then you'll see also No. 3 is highlighted,
3 and that's Claim 3. No. 17 is highlighted, that's on
4 another page, if you turn over on Column 15, you'll see
5 the No. 17 highlighted. And finally, the No. 30, which
6 is over on Column 18 is highlighted. And I'm not going
7 to tell you more about those now, but I just want you to
8 know that's where you can find those numbered claims.

9 Then if you'll flip to the next tab,
10 you'll see at the top we've highlighted the number '106.
11 That's the second tab in your notebook, and that's
12 patent '106, and the claims in it are back toward the
13 back of that. Let me see, we get to -- there we go. On
14 the -- where it has Column 15 up at the top of the
15 second to the last page of that hand out, you'll see the
16 claims start toward the bottom of Column 15, and Claim
17 No. 8 is highlighted because that's the claim from that
18 patent that is at issue in this case.

19 If you'll then flip to the next tab,
20 which says claim constructions, you'll see just one page
21 and that's the page that has the claim terms listed.
22 Those are words that are found in those numbered claims
23 that we've told you before, and then over under
24 construction in that column, that's the definition that
25 the Court has given you to work with as for those terms.

1 And you're going to be hearing a lot more
2 about that from the witnesses, but I just want you to
3 know where you can find those. And you can keep your
4 notes in the back of that notebook if you want so that
5 everything will be together for you.

6 And if you would just put those up for a
7 second, I know that you'll have lots of opportunity to
8 look through those, but I just want to now give you my
9 final instructions before the opening statements begin.

10 Each side will make an opening statement
11 in a moment. You need to understand that an opening
12 statement is not evidence. What the lawyers tell you is
13 not evidence, it's simply their explanation of what they
14 expect the evidence will show you. The evidence is the
15 sworn testimony of the witnesses together with the
16 exhibits that are admitted into evidence for your
17 consideration.

18 There are two standards of proof that
19 you'll be asked to apply to the evidence depending on
20 the issue you're deciding. On some issues, you decide
21 whether certain facts have been proven by a
22 preponderance of the evidence. That's the normal burden
23 in a civil case. A preponderance of the evidence means
24 that the fact to be proven has to be shown to be more
25 likely true than not true. In other words, that the

1 evidence in favor of the fact being true is sufficient
2 to tip the scale even if slightly in favor of it, more
3 probably than not.

4 On certain issues in this case that I'll
5 identify for you, you'll be applying a higher standard,
6 and in that case, you'll be deciding whether a fact has
7 been proven by clear and convincing evidence; that is,
8 in those matters the question will be whether you've
9 been left with a clear conviction that the fact has been
10 proven. These standards are different from what you've
11 heard about in criminal cases where there has to be
12 proof beyond a reasonable doubt. That's a very high
13 standard, and we use that in criminal cases deciding
14 whether a person should be imprisoned or subjected to
15 other penalty.

16 If you put all these different standards
17 of proof on a scale, preponderance of the evidence would
18 be at the lower end where the proof need only be enough
19 to tip slightly in favor of the party who has the burden
20 of proving the fact. And then all the way at the other
21 end, at the highest end, would be proof beyond a
22 reasonable doubt, which is in criminal cases. And then
23 on those issues where you have to determine by clear and
24 convincing evidence, that would be somewhere in between
25 those two standards.

1 After you've heard the opening
2 statements, the Plaintiff, PACT, will present its
3 evidence about whether some of the numbered claims of
4 the patent have been and continue to be infringed by
5 Xilinx and whether that infringement has been and
6 continues to be willful.

7 To prove infringement of any claim, PACT
8 must persuade you by the preponderance of the evidence
9 that it's more likely than not that Xilinx has infringed
10 that numbered claim. To persuade you that any
11 infringement was willful, PACT must prove that the
12 infringement was willful by clear and convincing
13 evidence, the higher standard we discussed.

14 PACT will also present its evidence in
15 support of damages. PACT will then present its evidence
16 that the claims of the '181 patent and the 10 -- I'm
17 sorry, Xilinx, the Defendant, will then present its
18 evidence that the claims of the two patents are not
19 infringed and are invalid.

20 To prove invalidity of any numbered
21 claim, Xilinx must persuade you by that higher standard
22 that we discussed, clear and convincing evidence, that
23 the claim is invalid. In addition to presenting its
24 evidence about invalidity, Xilinx will also put on
25 evidence responding to PACT's proof of infringement and

1 willfulness. Xilinx will also put on evidence
2 responding to PACT's evidence about damages.

3 PACT will then be given an opportunity to
4 put on any additional evidence responding to Xilinx's
5 evidence; that's what's known as rebuttal evidence.

6 After all the evidence has been
7 presented, I will give you the final instructions on the
8 case. The lawyers will then present their closing
9 arguments. And you will then have the case and retire
10 to deliberate your verdict.

11 At this time, I'd ask you to give your
12 attention to counsel, and we'll start off with PACT as
13 they present their opening statement.

14 MR. GRINSTEIN: Thank you, Your Honor.

15 Good morning, Ladies and Gentlemen of the
16 Jury. My name is Joe Grinstein and I represent the
17 Plaintiff in this case, which is a company called PACT.

18 And with us in Court today, we've got two
19 witnesses who will be testifying to you during the
20 course of this trial from PACT. We have Mr. Martin
21 Vorbach, who is the lead inventor on the PACT patents
22 and we also have Mr. Peter Weber who is the Chairman of
23 the Board of PACT.

24 Now, as you all heard, this case is a
25 business dispute about patent infringement. My client,

1 PACT, developed and owns these two patents, and it's our
2 contention that the Defendants, Xilinx and Avnet, are
3 infringing on these two patents by making, using,
4 selling products that are covered by the claims in these
5 two patents.

6 Before I go any further, though, I'd like
7 to say a couple of words about the patent system in the
8 United States. Now, our Founding Fathers thought that
9 patents were so important, they established the patent
10 system in the United States Constitution. It's right
11 there in Article 1, Section 8. And the idea behind the
12 patent system was to encourage scientists from all over
13 the world to come here to the United States to publicly
14 disclose their inventions.

15 The idea was if folks came here and
16 disclosed their inventions, that American scientists
17 could be inspired by those inventions, could learn from
18 them, could improve upon them. Now, in exchange for
19 publicly disclosing your invention, the United States
20 government issues to you a patent. And you can see what
21 a patent gives to you on the very first page of the
22 patent. It's right there on the first page. If you are
23 granted a patent, you are given the right to exclude
24 others from making, using, or selling anything that is
25 covered by your patent. So that's how patent rights

1 work.

2 You can kind of think like a patent as a
3 deed to property. You know, every property has its
4 boundaries. And for a patent, the boundaries are in the
5 claims. The claims define where your intellectual
6 property starts and stops. And if you have a piece of
7 property like that, say you have a property like that
8 and maybe your property has some oil on it, an oil
9 company can't just come on to your property and start
10 drilling without your permission. That would be
11 trespassing. Patent rights are much the same way.

12 If you own a piece of intellectual
13 property, someone can't come in and start using your
14 patented inventions without your permission. That would
15 be trespassing. And that's what we've got here.

16 This is a case of patent infringement
17 because the Plaintiff, PACT, is going to prove to you in
18 this case that the Defendants, Xilinx and Avnet, are
19 trespassing on PACT's patented inventions. Although I
20 will tell you, I think during the course of this case,
21 you're also going to come to understand that this case
22 is about something more important than simple
23 trespassing.

24 This case is about doing the right thing
25 because the evidence is going to show that for the last

1 decade, the Defendant, Xilinx, has known about PACT's
2 patents and has known that it needed to use PACT's
3 patents in its products. But Xilinx has consistently
4 refused to do the right thing by PACT.

5 As far back as 2003, Xilinx was saying
6 these sort of things about PACT's patents. These
7 internal Xilinx documents says PACT seems like a strong
8 patent portfolio, and then Xilinx listed out the patents
9 that it thought were so strong, and look right there
10 you've got the '106 and the '181 patents, the two
11 patents in this case.

12 Other things that the Defendant Xilinx
13 said back in 2003, PACT has a large patent portfolio
14 which we should probably research and keep an eye on.

15 PACT, they are well positioned from a
16 patent point of view, they have a strong patent
17 portfolio. Those are the things that the Defendant said
18 before this lawsuit was filed.

19 And so after saying all those great
20 things about PACT's patent, did Defendants come to PACT
21 and ask for PACT's permission to use PACT's patents?
22 Did they do the right thing? The answer to that is no.
23 In fact, the Defendants came up with plan after plan to
24 avoid doing the right thing.

25 The Defendants first plan was to pretend

1 to be interested in a business deal with PACT, that way
2 Xilinx could extract more and more information out of
3 PACT without actually ever giving any business to PACT.
4 And Xilinx's hope was that PACT would eventually go
5 bankrupt and when that happened, Xilinx could swoop in,
6 buy up PACT's patents on the cheap and not have to pay a
7 fair price for them. Unfortunately for Xilinx that
8 first plan didn't work out. PACT didn't go bankrupt.
9 PACT survived long enough to file this lawsuit. So
10 after that occurred, Xilinx came up with a second plan.

11 After its bankruptcy plan failed and
12 after this lawsuit was filed, Xilinx ran to the Patent
13 Office and argued to the Patent Office that you know
14 what, PACT doesn't deserve these '181 and '106 patents.
15 You should take the patents away from PACT.

16 That's a process called putting the
17 patents into re-examination. And in this re-examination
18 process, Xilinx argued to the Patent Office that PACT
19 hadn't come up with anything new. In fact, Xilinx
20 argued that it was Xilinx that came up with PACT's
21 inventions before PACT.

22 But just like that bankruptcy thing,
23 Xilinx's re-examination plan also failed, because just
24 last year, the Patent Office rejected Xilinx's
25 re-examination petitions, and it re-affirmed that PACT

1 has good, valid patents. And that brings us to today,
2 because this trial is going to be Xilinx's third attempt
3 not to do the right thing.

4 First, it wanted PACT to go bankrupt, but
5 that didn't happen.

6 Second, it wanted the Patent Office to
7 take away PACT's patents, but that didn't happen.

8 And, third, it's going to ask you, the
9 Ladies and Gentlemen of the Jury, to find that PACT's
10 patents are not infringed or that they're invalid, but
11 PACT thinks that shouldn't happen either, because for
12 this particular incidence, the third time is not the
13 charm for Xilinx.

14 Because Xilinx won't do it on its own,
15 PACT is going to ask you the Ladies and Gentlemen of the
16 Jury to finally hold it accountable for its trespassing
17 on PACT's property.

18 So let me tell you a few things about
19 PACT. PACT is a company from Germany. And it was
20 founded in 1996 by Mr. Martin Vorbach. Now, Mr. Vorbach
21 was something of a computer whiz kid when he was a
22 little kid. He started running the computers in his
23 dad's construction business when he was just nine years
24 old. He built his first computer from scratch when he
25 was 15, and he got his first computer patent when he was

1 23 years old.

2 As he sits here today, Mr. Vorbach holds
3 60 United States patents, although this case, as you've
4 heard, is about just two of them, the '181 and the '106.

5 Now, while Mr. Vorbach was in college, he
6 got interested in a field of computers called
7 configurable computing, and so he founded PACT to
8 develop products in that field of configurable
9 computing. The other co-founder of PACT was a man named
10 Robert Munch, and Mr. Munch is listed as the second
11 inventor on all of PACT's patents. And that's how PACT
12 came to own Mr. Vorbach and Mr. Munch's patents in this
13 case.

14 So let me tell you now a little bit about
15 the technology in this case, and the easiest way I could
16 come up with a way to tell you about the technology and
17 explain it is to make an analogy to kids' toys.

18 Let's say you've got a little boy, and if
19 your little boy is anything like my little boy, Max,
20 your little boy loves knights and castles. And so for
21 Christmas one year, you could go out and buy your little
22 boy a toy castle. And you know what, that toy castle
23 would be really good at doing one thing. It would be
24 really good at being a toy castle.

25 Computer chips are much the same way.

1 You can buy a computer chip that's really good at
2 processing video, or you can buy a computer chip that's
3 really good at running complex calculations. But
4 there's a problem. What happens if, as it inevitably
5 will happened with a little boy, your little boy wakes
6 up one day and he decides he's not into knights and
7 castles anymore. Now he wants to be a fireman.

8 Well, now you're going to have to go out
9 and buy your little boy a firetruck, and it's the same
10 problem with computer chips. You have a computer chip
11 that processes video, and now all of a sudden you want
12 to do complex calculations, you're out of luck and you
13 wasted all that money on the first chip when what you
14 really want is a second chip.

15 Now, I will say there's one way you could
16 have fixed your boy's problem. You could have just
17 bought your boy some LEGOs. Then while your boy was
18 interested in knights and castles, he could have built
19 himself a castle. When he got interested in fire
20 stations, he could have built himself a firetruck, so on
21 and so forth. That's the beauty of LEGOs.

22 Configurable computer chips are much the
23 same way. You can take a configurable computer chip and
24 rearrange its parts and build a chip that's good at
25 processing video. And then if your needs change, you

1 can rearrange the parts again and build a chip that does
2 complex calculations.

3 Now, there are a variety of different
4 configurable computer chips out there, but this case is
5 going to focus on one kind of chip in particular. That
6 chip -- oh, I should also say that the parts of the
7 computer chip that you can arrange and rearrange are
8 called cells.

9 Now, the one particular kind of chip that
10 this case is going to focus on is called a
11 field-programmable gate array. And because that word is
12 a mouthful, most people usually just abbreviate it FPGA.

13 Now, the Defendant Xilinx is the world's
14 largest maker of FPGA chips. The other Defendant,
15 Avnet, is the distributor of Xilinx's FPGA chips. It's
16 kind of the middleman between Xilinx and Xilinx's
17 customers. And for that reason, you all are going to
18 hear a lot less about Avnet during the course of this
19 trial. Most of the focus and attention is going to be
20 on Xilinx.

21 So let's talk about Mr. Vorbach's
22 invention particularly. Now, PACT did not invent
23 configurable computer chips, and PACT did not invent
24 FPGAs. In fact, Xilinx was the one who developed the
25 first commercial FPGA back in the 1980s, and since then,

1 it has come up with a variety of really innovative FPGA
2 features, just not the features that are in this case.

3 What happened was back in 1995,
4 Mr. Vorbach realized that old-style FPGA chips had a
5 problem, and his inventions relate to critical ways to
6 solve that problem. That's why his patents are known as
7 improvement patents. They took a problem -- they took
8 an existing product, like an FPGA, and made significant
9 improvements on it.

10 So what was the problem that Mr. Vorbach
11 saw?

12 Well, like I said, in a configurable
13 computer chip, you can rearrange the parts of the chip
14 to build any kind of computer structure that you want,
15 but sometimes that's actually not a good thing.

16 Sometimes there are structures on a
17 computer chip you actually want to leave alone. And one
18 of those structures is known as the bus interface.
19 So what's a bus interface?

20 Well, let me tell you what a bus is, and
21 then I can tell you what a bus interface is.

22 Computer chips need to be able to
23 communicate. They need to be able to communicate inside
24 the chip, and they need to be able to communicate with
25 the outside world. And computer chips do this

1 communication over what is known as a bus. A bus is
2 like a communication pathway.

3 Now, this makes for pretty easy analogy
4 actually, because you can think of a bus like a city bus
5 system. A city bus system transports folks around a
6 town, just like the bus on a computer chip transports
7 data around the chip and off the chip.

8 Now, PACT's inventions relate to a
9 critical piece of circuitry called the bus interface.
10 This is the circuitry inside the computer chip that
11 controls the various buses and makes sure they're all
12 speaking the same language.

13 Now, this is a really critical part of a
14 computer chip. Without it, your computer chip couldn't
15 talk with the outside world, with other devices.

16 Now, what Mr. Vorbach realized is that
17 you can rearrange and build up any kind of computer
18 structure you want on your computer chip, and so every
19 time you fired up your FPGA and configured it, you could
20 put it on that bus interface. But that's not actually
21 very efficient.

22 Think about it this way: Let's go back
23 to the LEGO example. Let's say whatever your boy likes
24 to build, if it's a fire station, a house, whatever it
25 is, he always needs a roof. Now, your boy, when he

1 builds that roof, he can build it out of individual LEGO
2 blocks. He can put all the LEGO blocks together and do
3 that, but that would take him a long time.

4 It would be more efficient and he would
5 build that roof a lot quicker, if his LEGO set came with
6 some prebuilt roof pieces. Then he could arrange those
7 roof pieces, put them on to his creation, configure them
8 around a little bit, and he would have a roof. That
9 would have saved him a lot of time.

10 PACT's inventions are very similar to
11 that. PACT's innovation was to introduce into these
12 configurable computer chips something known as a
13 permanent bus interface, and the idea was that when
14 somebody used one of these chips, they would not have to
15 build that bus interface up out of cells each time.
16 They would not have to build it out of the LEGOs.

17 Instead, it would be a permanent
18 interface that was there. Although it's important not
19 to get confused on this point, what makes PACT's
20 interface permanent is the fact that you don't have to
21 build it up out of LEGOs each time. You don't have to
22 rebuild it out of cells.

23 That doesn't mean you never touch it. It
24 doesn't mean you never program it. That's all that it
25 means; it's not built out of LEGOs.

1 Now, PACT's permanent bus interface was a
2 huge improvement over the configurable chips that came
3 before PACT for four big reasons.

4 Reason Number 1, by having a permanent
5 bus interface on the computer chip, you save a lot of
6 space on your LEGO board. And by doing that, you can
7 use the LEGOs to build up the structures that you're
8 really interested in.

9 Number 2, you save a lot of building
10 time. By having that bus interface implemented
11 permanently, your computer programmers don't have to
12 build up that interface each time they want to configure
13 their LEGOs.

14 Number three, a permanent bus interface
15 is a lot faster than a bus interface that's not
16 permanent.

17 And, number four, permanent bus interface
18 uses less power, which is always a good thing in the
19 computer chip world.

20 So what did PACT do with those
21 inventions?

22 Well, PACT decided to design a chip, and
23 so it created a chip design, which is kind of like the
24 blueprints for a computer chip. And using those
25 blueprints for the computer chip, PACT went out and

1 marketed those blueprints and those designs to folks in
2 the industry.

3 So how does this relate to the
4 Defendants? How do all these inventions relate to the
5 Defendants?

6 Well, the evidence is going to show that
7 starting in 2002, Xilinx began infringing upon PACT's
8 permanent bus interface invention by introducing a
9 feature into its products called RocketIO, and Xilinx
10 was really proud of RocketIO. It touted RocketIO in all
11 its marketing materials.

12 It said its rocket science and, in fact,
13 the main RocketIO was supposed to tell folks just how
14 fast your FPGA chip would be if it had a permanent
15 interface like PACT's interface, like a rocket in PACT's
16 technology that makes that rocket go.

17 Now, over the years, Xilinx introduced
18 some additional infringing features that infringed
19 PACT's patents even more. Those are called embedded
20 EMAC and integrated PCIe endpoint. We'll explain all of
21 those to you in more detail as the case goes on.

22 So like I said, PACT took its inventions
23 and created a chip design, kind of like a blueprint for
24 chips. And into those blueprints, PACT put the
25 inventions of these patents. But PACT also put a ton of

1 additional PACT technology into those blueprints,
2 because PACT was designing an entire chip. It was not
3 just designing a -- a bus interface. It was an entire
4 chip.

5 So what did PACT do with these blueprints
6 with these chip designs?

7 Well, PACT went out into the market and
8 marketed its chip design to folks in the industry who
9 built chips or used chips. And some of the folks PACT
10 approached liked PACT's chip design; some of them
11 didn't. An example of someone who liked PACT's chip
12 design was a firm called EADS Astrium. They are folks
13 in Europe who build satellites and rockets for the
14 European equivalent of NASA. And Astrium licensed
15 PACT's chip design so that it could send designed chips
16 into space on satellites.

17 At the same time, there were also folks
18 who didn't like PACT's chip design, and you know what,
19 they were pretty candid about saying it, although that
20 brings us to a critical issue in this case.

21 This case is a case of patent
22 infringement. It is not a case of design infringement.
23 So your job in this case is not going to be to compare
24 PACT's chip design to Xilinx's chip design. In fact,
25 that wouldn't make any sense anyway, because there's a

1 lot more in PACT's chip design than just these patented
2 inventions.

3 Your job in this case is going to be to
4 compare Xilinx's products to PACT's patents. And so as
5 a result, whether or not PACT had a good business or
6 whether or not PACT had a good chip design is absolutely
7 irrelevant to the issue of whether or not it's got a
8 good patent.

9 And you know what, you don't have to take
10 my word for that. Xilinx itself says the same thing.

11 This is an e-mail from Ivo Bolsens, one
12 of Xilinx's executives, and he's here talking about
13 PACT.

14 And what does he say? You know what, I
15 wouldn't bet my dollars on PACT. I wouldn't invest in
16 them. I'm not so sure about their business, about their
17 chip design, but I would be interested in their patents.
18 He's saying it right there.

19 There's a difference between a business
20 and a design and patents, and Xilinx recognized it.
21 So having recognized that, did Xilinx do the right
22 thing? Did Xilinx come to PACT and say: You know what,
23 we like your patents. We're kind of iffy on your chip
24 design, so can we have permission to use your patents in
25 our products?

1 No. That's not what Xilinx did. Xilinx
2 came up with a different plan. Xilinx's plan was to
3 lead PACT on and extract as much information as it
4 could, but never actually do a business deal with PACT.
5 And Xilinx hoped by doing that, it could drive PACT
6 bankrupt. And then when PACT went out of business,
7 Xilinx could swoop in and buy up PACT's patents on the
8 cheap.

9 And you know what, it's not just me
10 saying that either. That plan is candidly laid out in
11 Xilinx's own e-mails. These are the sort of things that
12 Xilinx said in its own e-mails. PACT, on the verge of
13 going out of business, we may want to buy their patents
14 or have someone else buy them.

15 PACT, when the company comes available
16 for sale, I recommend taking a look at their patent
17 portfolio. We might want to put in a low offer to get
18 access to the patents, if they turn out to be valuable.
19 In fact, Xilinx was gleefully waiting for the day that
20 PACT went bankrupt.

21 Here's another e-mail from someone within
22 Xilinx talking about PACT, saying: You know what,
23 PACT's financials look really weak. They have 15 folks,
24 and they both -- they just fired both their CEOs.
25 And what does this person say? He says sarcastically:

1 Nice, stable company. And just to emphasize the
2 sarcasm, he puts down a little smiley face right there.

3 I tell you what, Ladies and Gentlemen of
4 the Jury, it was not all smiles for Xilinx, because PACT
5 didn't go bankrupt. PACT survived long enough to force
6 Xilinx to pay fair compensation for PACT's patents.
7 And what should that fair compensation be?

8 Well, that's one of the issues you're
9 going to have to decide in this case. And to go back to
10 our oil analogy, say the oil company asks you for
11 permission to come on to your land, like a good oil
12 company should. If it does that, it has to pay you what
13 is known as a royalty.

14 Patent law has the same concept. If
15 someone infringes on your patent, they have to pay you
16 what is known as a reasonable royalty. And to assist
17 you in figuring out what that royalty should be in this
18 case, we'll present to you the testimony of Mr. Jim
19 Nawrocki. He is an accountant and an expert in patent
20 damages.

21 Mr. Nawrocki, can you please stand up.

22 Mr. Nawrocki undertook an extensive
23 investigation of the Defendants' sales in this case.
24 And he found that Xilinx has sold 7 million chips that
25 infringe upon PACT's patents. He then figured out how

1 much of the selling price of each of those chips ought
2 to be attributed to PACT's technology. And he concludes
3 that PACT is owed a royalty of \$4.50 a chip for each of
4 those chips, for total damages of \$30.8 million.

5 Now, other than damages, there are going
6 to be two other hotly contested issues in this case.

7 The first hotly contested issue in this
8 case is going to be infringement. It's the question of
9 whether or not Xilinx does what is in PACT's patents.
10 And as you might remember from jury instructions or jury
11 selection a couple weeks ago, it is PACT's burden to
12 prove infringement to you. And it has to do that by
13 what is known as a preponderance of the evidence.

14 So if you think of the scales of justice,
15 the evidence has to tip slightly in favor of PACT on the
16 issue of infringement. And to help you on this
17 particular issue, we are going to present to you the
18 testimony of Dr. Nick Tredennick.

19 Dr. Tredennick, please stand up.

20 Dr. Tredennick is one of the world's
21 leading experts on FPGAs. He has a Ph.D. in electrical
22 engineering, and he is world-renowned as a FPGA expert.
23 In fact, he has been called a true industry pioneer in
24 the configurable chip industry.

25 And do you know who called him that?

1 Xilinx called him that. Xilinx issued a
2 press release in 2002 and called our expert a true
3 industry pioneer. What Dr. Tredennick is going to do is
4 tell you about the investigation of Xilinx's products
5 that he undertook. He looked at those products, and he
6 compared those products to the individual words in
7 PACT's patent claims. And he's going to show you how
8 Xilinx infringes.

9 Now, on the subject of infringement, I
10 want to mention two more things.

11 Number one, infringement is not the same
12 thing as copying. To prove infringement, PACT does not
13 have to show you that Xilinx literally took out PACT's
14 patent and copied PACT's inventions out of it. In fact,
15 you can be guilty of patent infringement even if you
16 never knew about the patent you were infringing.

17 I mean, think about it. If you had a
18 piece of property and someone came on to your property,
19 they would be guilty of trespassing even if they never
20 saw your no-trespassing sign. That being said, that's
21 not the case here.

22 What the evidence will show here is that
23 Xilinx came on to PACT's property. Xilinx saw PACT's
24 no-trespassing sign, but instead of immediately leaving,
25 Xilinx stayed on that property and kept infringing.

1 That is not accidental patent infringement. That is
2 willful patent infringement.

3 The second thing I want to say to you on
4 the issue of infringement is that there is one and only
5 one place you should look in the patents to determine
6 whether there has been infringement. That is the claims
7 of the patents, these numbered photographs at the very
8 end of the patent.

9 Remember what the Court just told you ten
10 minutes ago in its preliminary instructions. The Court
11 said that the claims define the boundaries of its patent
12 protection. And then the Court told you the first issue
13 you're going to be asked to decide in this case is
14 whether Xilinx has infringed the claims of the '181
15 patent or the '106 patent.

16 Infringement is assessed on a
17 claim-by-claim basis. So that means the one and only
18 one place that you all should look when considering the
19 issue of infringement is in the claims of the patents
20 and any definitions of those claims that the Court may
21 provide to you.

22 So during the course of this case,
23 someone may get up to you and say: You know what,
24 PACT's invention is this, or someone might get up to you
25 and tell you PACT's invention is that. But all of that

1 will not matter on the issue of infringement, unless
2 those folks are using the language of the claims, unless
3 they are talking about this claims.

4 Likewise, someone during the course of
5 this case may get up and talk to you and say: You know
6 what, the abstract of the patent says this. Or they may
7 get up to you and say: You know what, the drawings of
8 the patents say that. But, again, you cannot infringe
9 the abstract of a patent. You cannot infringe the
10 drawings of a patent.

11 The only thing you can infringe are the
12 claims of the patent. Let me give you an example of
13 this. During jury selection two weeks ago, Mr. Baxter,
14 representing the Defendants, argued to you that what
15 PACT's invention was, was to quote the patent, an
16 interface that took no computer programmer intervention.
17 That's what he said.

18 And then he said: You know what,
19 Xilinx's products have computer programmer intervention;
20 therefore, we don't infringe.

21 But you know what, that phrase, no
22 computer programmer intervention, that doesn't appear
23 anywhere in the claims of the patents or in the
24 definitions of the patents. In fact, that phrase
25 doesn't actually appear in the patents at all.

1 Mr. Baxter was paraphrasing the patent.
2 He wasn't quoting it. In any event, unless the phrase,
3 no computer programmer intervention, appears in the
4 claims of the patent or in the definitions of those
5 claims, and it doesn't, any argument that Xilinx wants
6 to make to you about whether its products have
7 intervention or whether they don't have intervention has
8 no relevance to infringement.

9 Let me give you another example. During
10 voir dire or during jury selection -- if my clicker --
11 oh, I was clicking the wrong thing and I was hitting you
12 with the laser. Sorry about that.

13 During jury selection a couple weeks ago,
14 Mr. Baxter also told you that you know what, PACT's
15 inventions has this bus system on it, and you can't
16 program it. You don't touch that bus system at all.
17 And he said: You know what, we don't infringe because
18 we've got a bus system that you can program.

19 But Mr. Baxter, when he made that
20 argument to you, didn't actually show you the claims of
21 any of PACT's patents, and there's a good reason for
22 that. That's because the claims of PACT's patents say
23 the exact opposite thing.

24 This is Claim 30 of PACT's '181 patent
25 and Claim 30 right here (indicates) is talking about

1 this interface unit that I discussed with you earlier.

2 And what does it say about the interface
3 unit?

4 It says that the interface unit can be
5 configured. That means that interface unit can be
6 programmed; it can be touched. So it's absolutely not
7 true that PACT's patents are some patent that has a bus
8 system that you can't program and you can't touch,
9 because Claim 30 of the '181 patent says the exact
10 opposite.

11 That's why you should not listen to what
12 people tell you what are in the patents. You should
13 insist on seeing what's actually in the claims of the
14 patents.

15 Now, the second of the two issues I want
16 to talk to you about, which will probably be a big issue
17 in the case, is the issue of invalidity. What Xilinx is
18 going to argue to you is, you know what, even if we do
19 infringe PACT's patents, that's okay because PACT's
20 patents are invalid and never should have been granted
21 in the first place.

22 It's kind of like I didn't steal your
23 lawn mower, but even if I did steal your lawn mower it
24 was broken when I took it.

25 And what Xilinx is going to come and

1 argue to you is and say: The Patent Office messed up.
2 It should have never issued these patents to PACT,
3 because other folks had developed these inventions first
4 in what's known as the prior art.

5 And on this particular issue, it's
6 important to remember that there's something called the
7 presumption of validity. And because of that
8 presumption of validity, in order for Xilinx to
9 invalidate these patents, Xilinx has to come and present
10 to you clear and convincing evidence that the Patent
11 Office made big errors and messed up and should have
12 never issued these patents.

13 Now, I do not know what precisely will be
14 Xilinx's invalidity arguments. I suspect what Xilinx is
15 going to argue is that Xilinx came up with PACT's
16 inventions before PACT did, which is somewhat
17 interesting, because they're also going to be arguing to
18 you that Xilinx doesn't do what PACT does, even though
19 Xilinx came up with PACT's inventions before PACT did.

20 In any event, Xilinx is going to argue to
21 you, I think, that it had two products called the
22 XC 4000 and XC 6200, and both of these products had
23 PACT's inventions in them before PACT filed for its
24 patents.

25 It's going to be really hard for Xilinx

1 to make that argument to you. Really hard for two
2 reasons. The first reason are all those e-mails that I
3 showed you where Xilinx kept saying that PACT has great
4 patents; we should buy them up as soon as PACT goes
5 bankrupt.

6 But if it's really true that Xilinx had
7 invented this stuff before PACT did, then why didn't
8 somebody in those e-mails chime in and say: You know
9 what, PACT's patents are terrible. We shouldn't buy
10 these patents. We don't want these patents. We
11 invented this stuff with the 4000 and the 6200.

12 But you're not going to see any e-mails
13 in this case that say anything like that.

14 The second big problem for Defendants on
15 invalidity is going to be an even bigger problem for
16 them, because like I mentioned to you, after PACT filed
17 this lawsuit, Defendants ran to the Patent Office and
18 tried to get the Patent Office to take away PACT's
19 patents. It's a process called putting the patents into
20 re-examination.

21 During that process, Xilinx argued to the
22 Patent Office that PACT hadn't come up with anything new
23 and PACT didn't deserve its patents. And, in fact, that
24 XC 4000 and XC 6200 were before the Patent Office during
25 the re-examination. The Patent Office looked at those

1 things and considered them and still concluded that
2 PACT's patents were good, valid patents and that PACT
3 was first with these inventions and not Xilinx.

4 So now what the Defendants are going to
5 come up to you and do is try to get you to second-guess
6 the Patent Office. And like I said, I'm not sure what
7 their invalidity arguments are going to be, but I can
8 tell you that any piece of prior art that they're going
9 to show you during the course of this trial, the Patent
10 Office looked at and concluded last year does not
11 invalidate the patents.

12 So Xilinx is going to ask you to
13 second-guess the Patent Office right there, after the
14 Patent Office has already blessed these two patents
15 twice.

16 THE COURT: You've got about four
17 minutes, Mr. Grinstein.

18 MR. GRINSTEIN: Xilinx took its shot at
19 trying to short-circuit this case at the Patent Office,
20 and Xilinx lost.

21 So, Ladies and Gentlemen of the Jury,
22 thank you for your time, and thank you for your
23 attention today. And certainly, I know on behalf of
24 both parties, thank you for your jury service.

25 I know what I just said was a lot to take

1 in in 40 minutes, but at the end of the day, I think
2 you'll find that this case is actually pretty simple.

3 On the one hand, you've got PACT who came
4 up with revolutionary technology; it was a significant
5 improvement over configurable chips and whose patents
6 have been approved by the Patent Office not once but
7 twice.

8 On the other hand, you've got Xilinx who
9 has consistently refused to do the right thing by PACT.

10 First, Xilinx wanted PACT to go bankrupt,
11 but that didn't happen. Second, Xilinx wanted the
12 Patent Office to take away PACT's patents, but that
13 didn't happen. And now for a third shot, Xilinx is
14 going to want to argue to you that it does not willfully
15 infringe PACT's valid patents.

16 But as PACT sees it, the third time is
17 not the charm for Xilinx, and just like in baseball, it
18 ought to be three strikes and you're out.

19 Thank you.

20 THE COURT: Thank you, Mr. Grinstein.

21 MR. BAXTER: Ready, Your Honor?

22 THE COURT: For the Defense, yes.

23 MR. BAXTER: Thank you, Your Honor. May
24 it please the Court.

25 Ladies and Gentlemen of the Jury, we left

1 you two weeks ago with two burning questions. Number
2 one, was my friend, Mr. Carroll, here going to make the
3 jury. I told you he would.

4 Did you make the jury?

5 MR. CARROLL: The case settled.

6 MR. BAXTER: Didn't make it.

7 Number two, does Xilinx infringe the PACT
8 patents? And I told you then, and the evidence in this
9 case, is going to prove to you that we absolutely do
10 not.

11 Now, I think what we ought to do is go
12 back and look at where the computer industry was, not
13 when PACT came along, but long before that, even before
14 Xilinx came along.

15 And what we had was a situation, as we
16 talked in voir dire, where chip companies were making
17 chips called ASIC chips, and they were very specific
18 chips, and they did one thing and they tried to do it
19 very well. But they were hard-wired, and they were
20 fixed.

21 And there were a couple of problems, it
22 turns out, with the ASICs. Number one, they were very
23 expensive.

24 Number two, if you made a mistake, you
25 got to eat a whole boatload of chips, because they were

1 not valuable to you.

2 And, number three, if you found out there
3 was a better way to do something, once again, you were
4 in trouble, because what you had was a boatload of chips
5 that now you wanted to change and you had to start all
6 over. You had to get your engineer to design the
7 change. You had to get them to the foundry. They had
8 to mask them. They had to produce them, and they had to
9 get them to you. And then you needed to convince
10 customers they ought to buy a new chip.

11 Well, there was another system that was
12 in computers that was important, and that was called the
13 bus system. And you heard a little bit about the bus
14 system. And this case is going to turn out to be about
15 the bus system. We're going to talk about that in a
16 minute, but here's how the old bus systems worked.

17 You had a chip with a permanent bus
18 control, and it set up something called the bus system
19 protocol. And the bus system protocol was a way in
20 which the chips had to agree that in this case, they
21 both spoke English. And you couldn't have a chip in
22 which one of them spoke English and the other spoke
23 French, and it didn't understand English, because those
24 chips were not going to communicate.

25 But those were hard-wired. They were

1 fixed. And they were permanent, which meant, once
2 again, that if a bus system came along and you thought
3 it was better than the one you had, you couldn't change
4 it. You had to go buy new chips.

5 And that was sort of the state of the art
6 until 1982. And for a moment when I was listening to
7 Counsel, I was afraid that he was going to claim that
8 Mr. Vorbach and PACT invented FPGAs. Of course, that
9 didn't happen. Mr. Vorbach wasn't around in '82, but
10 there was a gentlemen by the name of Ross Freeman.

11 And he was a computer chip engineer, and
12 he realized the problem that people were having with
13 ASICs and with bus control systems. And he said
14 wouldn't it be good, if we had a chip that you could
15 change that wasn't fixed, that you could program?

16 And so he sat down and he designed a
17 chip, the first commercial chip of something called a
18 field-programmable gate array. Now, the reason it's
19 called field programmable is that when you design the
20 chips, you make it for sale to a very sophisticated
21 customer that's going to have its computer chip
22 engineers program the chip.

23 When they get it and it comes out of the
24 box, it won't work. It takes the company and their
25 computer chip engineers to tell it what it wants to do,

1 and it will do amazing things. It will do a large
2 number of things, but out of the box, it won't do
3 anything.

4 Now, they got smaller. They got all the
5 pins on the side. It's eventually called gate array,
6 because if you look on the inside of those, you would
7 find all those cells, and they're all wired together.
8 And they have something called CLBs inside, and that is
9 the gate array that's inside. And we're going to hear a
10 lot about CLBs in this case and they're logic blocks.
11 But they're the ones that are configurable; hence,
12 they're called CLBs. And those CLBs, when they arrive
13 at the customer, the customer can then tell the CLBs:
14 Here's what we want you to do. And in this case, we
15 want -- let's see the next slide just a minute.

16 There's -- there's the customer, and he
17 tells the program chips with the configuration file how
18 we want you to work. And in the field, that chip will
19 do amazing things.

20 Let's see the next slide.

21 Now, here's the great thing about the
22 chip, is that the chip designer -- this is the customer
23 now. Say it's Cisco, and you want that chip to go into
24 a router in order to route e-mail messages or whatever
25 it is.

1 The chip designer can start and he can
2 start designing that chip, and he realizes that maybe
3 that triangular wheel isn't going to work very well. So
4 what he can do is he can change it, and he can make it a
5 different type of wheel, one that will work. He can
6 then change it to something entirely different.

7 Let's suppose Cisco wants a different
8 kind of router. Instead of having a car router, it
9 wants a truck router. You can wipe it out and you can
10 start it over, and you can make it the kind of router
11 you want. And that is the beauty of the chip.

12 And one of the things that Mr. Freeman
13 said is that we're going to have building blocks, and
14 we're going to use building blocks inside of those chips
15 in order to build the sort of thing we want the chip to
16 do. And when we send them out, it can go to a
17 television and be a television FPGA, or it can go to a
18 satellite or it can go into an airplane or it can be
19 used in the computer in your automobile for the fuel
20 injection system, whatever it is. That's how our chip
21 works.

22 The FPGA, the field-programmable gate
23 array, it was a revolution in the computer industry. In
24 fact, if you look at one of the computer publications
25 that writes about very sophisticated computers, they

1 have the 25 microchips that shocked the world. And one
2 of those 25, of course, is the Xilinx field-programmable
3 gate array.

4 For his work -- Mr. Freeman's now dead --
5 but for his work, he was placed in the Inventors Hall of
6 Fame right after Alexander Graham Bell and before Samuel
7 F.B. Morse. Mr. Freeman is one of those distinguished
8 inventors that helped change the computer industry and
9 thus changed our world, and it's because he had the idea
10 of having building blocks inside of a chip that you
11 could change, that you could make do whatever it is you
12 want it to do throughout the chip.

13 Now, here's the question for us, is it
14 always required to program the CLBs in the chips?

15 And the answer is, no matter which chip
16 you started with, with the Freeman patent back in 1984
17 going through -- we went through 2010, but if you went
18 through today, every one of our chips, when it gets to
19 the customer, must be programmed so the chip will do
20 what that business needs it to do.

21 And because our chips have been so
22 reliable and because they are the standard in the
23 industry, they're used for our aircraft, our fighter
24 aircraft. They're used in most medical devices that
25 take a computer. Your television that you watched this

1 morning before you came to court has got one in it, and
2 the car that you've got has one in it.

3 Xilinx has been an innovator in the
4 field. They own 2500 patents. They are the leading
5 FPGA-maker in the world today, and they have the
6 cutting-edge technology.

7 Now, let's talk just a moment about PACT
8 and who they are and where they came from and what they
9 did.

10 PACT was started by Mr. Vorbach and
11 Mr. Munch, and they're the co-inventors of the two
12 patents. Mr. Vorbach you've seen; he's the Plaintiff or
13 represents the Plaintiff in this case. You haven't seen
14 Mr. Munch yet, and there will be an interesting story
15 associated with Mr. Munch.

16 And that is, Mr. Munch was in Germany and
17 he was contacted by PACT's lawyers, had a brief
18 conversation, and you never heard from him again. When
19 we found out about Mr. Munch, we eventually contacted
20 him, and we talked to him about his invention. He's
21 going to come, when it's our turn to put on our
22 evidence, and explain to you exactly what they invented.

23 Mr. Munch and Mr. Vorbach, of course,
24 knew about Freeman. They even cited Freeman in their
25 patent applications, but here I think we might

1 divulge -- diverge and talk about what these chips --
2 our chips and what they tried to invent really was
3 about. And it's something you didn't hear from Counsel.
4 And that is, when they were starting to make designs for
5 their chip, they said: We understand about FPGAs.
6 That's a really great idea, but we're going to make a
7 better one.

8 At that time, it didn't have anything to
9 do about any bus control system. It was how can we make
10 a better FPGA. And in my limited understanding, here's
11 what they said: We're going to add complexity to the
12 chip. We, in effect, are going to put a little
13 mini-microprocessor in the chip, and we're going to have
14 it do things differently than the way Xilinx FPGA chips
15 work. Differently.

16 And here's the best analogy that I can
17 understand and -- and maybe get across to you, and my
18 colleagues over here will cringe every time I do it
19 because they say, Baxter, you have a simple
20 understanding. But that's all I've got. But here it
21 is:

22 If you have a truck that's going to go
23 from Dallas to Marshall using the Xilinx chips, you can
24 program the truck to go from Dallas to Marshall and you
25 can say, start on Interstate 30, get on 80, go to 20,

1 get off at 43, turn left on Washington, and go to the
2 Square.

3 But once you tell it that, the truck's
4 going to do exactly that. It's not going to vary from
5 its route. That's how you programmed it. That's what
6 it's going to do.

7 But the PACT people said: We've got a
8 different idea. We're going to tell that truck to go
9 from Dallas to Marshall, but if there is some condition
10 that changes, we're going to stop the truck, halt the
11 truck, reprogram it a way to go, and tell it to go
12 differently so it may cut across in Canton and get on 80
13 and go to Marshall from there.

14 Now, that was what their idea really was
15 about. And when they came and talked to Xilinx, that's
16 really what they talked to us about.

17 Here's the problem they had right
18 upfront, and you're going to hear Mr. Munch explain
19 this. Once you add that complexity to your chips -- and
20 by the way, it turns out that the chips didn't work.
21 But once you add that complexity to your chip, now you
22 need to get that information off the chip.

23 You now have a bus control system and a
24 bus control system that you need to be simple. You
25 don't need it to be complex. You don't need to program

1 that bus control system. You want it permanent; you
2 want it fixed; and you don't want to change it. You
3 don't want to program it.

4 And you will hear Mr. Munch say they had
5 long conversations, he and Mr. Vorbach, about that.

6 Now, Mr. Munch was the real brains behind
7 the software, and he was the one saying it's very
8 complex; it's very hard to write the code; it's very
9 hard to get the chip to do what we want it to do;
10 therefore, at least in the bus control area, let's dummy
11 it down and make it simple and make it fixed and make it
12 permanent, and we don't program that.

13 And that's what they agreed to do, and
14 that's what they got a patent on. And you're going to
15 hear Mr. Munch explain all that to you about how that
16 was his idea. Mr. Vorbach agreed, and that's how they
17 tried to design their chips.

18 Now, you heard a little bit about the
19 patent, and you've got the patent in your notebooks
20 there. If you get a chance, open that up just a moment.
21 See if you can find the '181 patent.

22 And I heard something very amazing today
23 from Counsel, and that is, it's the first time I've ever
24 heard anyone say: Just look at the back of the patent
25 and don't read anything else.

1 But I want you to start at the front of
2 the patent where Mr. Munch and Mr. Vorbach, who swore
3 under oath to the Patent Office about their '181 bus
4 patent, what that patent consisted of, and it's right
5 there in the abstract.

6 And it says: A uniform bus system is
7 provided which operates without any special
8 considerations by a programmer. The bus system control
9 is predefined; it's fixed; it's permanent; and does not
10 require any influence by the programmer. And that was
11 their idea. And they were upfront to the Patent Office
12 that said we're going to make it fixed; we're going to
13 make it permanent; and we're not going to have the
14 programmer influence it any way whatsoever.

15 If you go further in the patent, you'll
16 find a section called the summary of the invention that
17 Mr. Munch and Mr. Vorbach swore to. And here's what it
18 said: The present invention provides a uniform bus
19 system, which operates without any special consideration
20 by the programmer. The present invention includes a
21 permanent implementation of the bus control system. And
22 you're going to hear a lot about the word permanent.

23 And Judge Payne and the Court has issued
24 a claim construction that's also in your notebook. And
25 I'm going to talk about that in just a second. But

1 let's see if Judge Payne didn't tell you and tell us
2 that the bus control system has to be permanent, which
3 is exactly what Mr. Munch and Mr. Vorbach in the
4 Munch/Vorbach patents said.

5 Go back just one second.

6 And at the bottom of that summary, it
7 says: The bus control system is predefined and does not
8 require any influence by the programmer. That's the
9 '181.

10 The '106, here's the abstract. If you've
11 got your '106 patent, it's right at the front. It's
12 what they tell the public their patent is all about.
13 A general bus system is provided which combines a number
14 of internal lines and leads them to a bundle through the
15 terminals. The bus system control is predefined and
16 does not require any influence by the programmer.

17 That's the '106.

18 Let's see the next one.

19 They told the Patent Office and they told
20 us and they told you in this summary, and you can find
21 it in the patent. It's -- it's after the drawings and
22 it's right at the first of the words: A uniform bus
23 system operates without any special consideration by a
24 programmer. A permanent implementation of the bus
25 system control is provided. The bus system control is

1 predefined and does not require any influence by the
2 programmer.

3 Now, Judge Payne is going to tell you
4 what some of the words mean, and I'm here to tell you
5 that one of the things he's going to tell you is, it's
6 got to be permanent, because that's what the inventors
7 told the Patent Office their bus control system was
8 going to be. It was going to be permanent.

9 Now, here is a sample claim from the
10 '181, and we're going to talk about an interface unit.
11 And the interface unit is coupled throughout plurality
12 of individual lines, and it forms the bus system.

13 Go to the next slide for me.

14 Now, this is right from Judge Payne's
15 claim construction, and he defines a couple things for
16 you. There's some more words in there, but he tells you
17 that the bus system is used to communicate information
18 according to a bus protocol. And a bus protocol, we'll
19 remember, is I speak English; you speak English; no, you
20 want to speak French? Okay, I'll need a different
21 protocol in order to speak French.

22 But more importantly, remember that claim
23 had an interface unit in it, and he tells you what that
24 interface unit has to be, and it is a unit providing
25 permanent implementation of a bus control -- bus system

1 control for communicating across a shared boundary; that
2 is, up against another chip or an external device.

3 Now, it's permanent control of the whole
4 system, not just one little bitty part of it, not one
5 little tiny block in a scheme of blocks that is like
6 this (indicates). It's the whole thing. That's what
7 they got their patent on. That was the solution to
8 their problem, that their chip was too complex. And
9 that's how they solved it. And that's what the patent
10 is.

11 And Judge Payne has told you that it's
12 permanent, and I think we'll hear a lot about whether or
13 not the Xilinx chips and the bus control system -- or
14 the bus system control -- I always say it backwards --
15 is permanent or not.

16 Now, what else happened to PACT?

17 Well, PACT takes its patents and its
18 ideas and its schematics and it goes out into the
19 marketplace. They contact us. We didn't contact them.
20 They contacted over 60 companies, and no one -- no one
21 would invest in the company, would buy their patents, or
22 would take a license from them on their new chip idea.
23 And the reason is it didn't work. It was too complex,
24 and they couldn't make it work.

25 They had all kinds of problems. They had

1 design problems. They had manufacturing problems. They
2 had administrative problems. They simply,
3 unfortunately, for them failed in the marketplace.

4 Now, they had a business plan in 2001,
5 and here's what they told people that wanted to invest.
6 It's what I told you a while ago. It was a unique
7 combination of revolutionary technologies and a new way
8 of computing. Now, think about this just for a moment.
9 If Xilinx was using their technology, why in the world
10 would they tell us they had a new way and a new way of
11 computing and a new way to make FPGAs.

12 Not just once but over five or six years,
13 they kept coming back and we kept telling them no. We
14 kept telling them we're not interested. We don't think
15 your technology is going to work. We are not interested
16 in changing the way we do things, because what they kept
17 telling us is, it was new; it was new in two respects.

18 Number one, that microprocessor that sat
19 on top of their gate array was going to be able to stop
20 the operation, halt it, reprogram the chip, and do it a
21 different way. And we said that's too complicated. We
22 don't want to do that. Our customers don't want to do
23 that. That basically is called coarse grain array, and
24 we didn't want to do it.

25 Now, I'm not just kidding about how they

1 pursued us. Really starting in 2002, there were
2 meetings with Mr. Bolsens. You saw some of his e-mails,
3 and you're going to get a chance to see Mr. Bolsens and
4 judge his credibility for yourself.

5 THE COURT: Mr. Baxter, if you'd speak a
6 little closer to the mic, I think we'll be able to pick
7 you up better. Thank you.

8 MR. BAXTER: Is that better?

9 THE COURT: That's better.

10 MR. BAXTER: You're going to see
11 Mr. Bolsens, and I think what you're going to find,
12 after you see Mr. Bolsens, after you see Ivo, is that
13 he's an honest man. He wouldn't steal anybody's
14 technology. He's a scientist. He is simply interested
15 in doing the right thing, and that's what he did.

16 And one of the things he did is that he,
17 in all fairness, looked at PACT's technology to see if
18 they were interested, to see if they had something
19 better, because if it were better, they wanted to take a
20 look at it and maybe do it. But it wasn't.

21 And for all of these meetings, all the
22 e-mails, all the in-person meetings, when you look at
23 documents, I'll promise you this: They were about
24 whether or not you were going to put that microprocessor
25 on top of those chips, and you were going to have some

1 sort of halt/reprogram/start again chip.

2 The bus system wasn't even discussed.
3 That's how proud they were of the bus system. That's
4 not what they were trying to sell Xilinx. They were
5 trying to sell them new technology. Being fixed and
6 permanent was old technology, and they knew, had to know
7 that Xilinx did it differently.

8 Now, think about this: If you're going
9 to go to a company and tell them I'm going to sell you
10 something new, you've got to know how they do something.
11 And they did, in fact, know how we ran our chips.

12 To top it all off, there's no secret how
13 we do it. All of our manuals that explain how things
14 work are on the Internet. You simply go to Xilinx and
15 go to the right website and our manuals pop up, and they
16 had instructions.

17 One of the board members instructed
18 Mr. Vorbach personally to take a look at all of the
19 Xilinx materials, and they kept up with us, and they
20 knew what we were doing.

21 Now, they had all these meetings, and we
22 kept saying, no, we're not interested in your chips.
23 And they kept coming back and kept coming back and kept
24 coming back until finally we very directly said we
25 simply are not interested in investing money, buying

1 your patents, buying your chips, or licensing your
2 technology, because we don't think it's a good fit for
3 Xilinx.

4 Now, one of the things that they didn't
5 tell us is that they had had their chips evaluated by an
6 expert independent lab, and they found out -- that is,
7 PACT found out -- they forgot to tell us -- next
8 slide -- that their chips just didn't work very well.
9 And in comparison to everybody else's chips, they
10 failed.

11 It was so bad that Mr. Vorbach wrote a
12 letter to the board that said this: The chip's
13 specifications did not fit any customer requirements,
14 not even Siemens. And we're going to hear a lot about
15 how they tried to get Siemens interested.

16 Go back.

17 It did not support sequential processing,
18 external DSPs were required, which did not even
19 interface and integrate well. The interface structure
20 was proprietary, the protocols complicated and badly
21 defined. No standard bus structure was implemented.
22 With the given specification, the chip was absolutely
23 useless for any product, not even for prototyping.

24 And even after he wrote this and even
25 after they got reports from Siemens and BDTI that their

1 chips didn't work and didn't perform well, they still
2 came back and tried to sell our (sic) chips and told us
3 they were high performance and we needed them.

4 Wasn't true. If you look at those
5 documents, if you get a chance to see those documents,
6 see if there's anything about a bus control system,
7 because that's not what they were talking about.

8 Mr. Weber that you saw out here had to
9 write the investors that he had been disappointed and
10 they had been a failure.

11 Mr. Diaz.

12 And, finally, Mr. Schwarz at Xilinx had
13 to tell Mr. Weber in 2006 that their proposed solution
14 is too risky, and there's just no synergy with Xilinx.
15 And we once and for all said we simply are not going to
16 do business with you, which we had told them two times
17 before, and then they sued us.

18 Now, I told you we didn't infringe, and
19 the testimony is going to be this: You heard about the
20 RocketIO. Now, here's what's going to be interesting
21 about the RocketIO. Xilinx got the technology for the
22 RocketIO in 2000. They hadn't even heard of PACT. They
23 determined they were going to put this technology in
24 their chip, and the RocketIO, in order for it to work,
25 has to be programmed by the customer.

1 You heard about the ethernet MAC cores
2 and the PCI Express cores. They all have to be
3 programmed by the customer in order to get them to work.
4 And this is the bus system control. It's not permanent;
5 it's flexible. There are over dozens upon dozens of bus
6 system controls and bus systems. Companies use
7 different ones depending on what their needs are and
8 what they like.

9 Our chip will do them all. Their chip
10 was fixed and permanent and would not do that. Our
11 chips have to be programmed. That's not the way their
12 patent worked. It wasn't their idea. They had the
13 opposite idea. They were going to be fixed and they
14 were going to be permanent.

```
15         If you look at -- at our documents, this
16 says they're highly configurable, and you've got to
17 program all the RocketIO.
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18 | Let me see the next slide.

19 Here's just an example of how many CLBs
20 it takes. It takes more than 370 to program the ether
21 (sic) MAC; almost 200 to do the PCI Express; and 430 to
22 do something called OBSAI. Those logic blocks have to
23 be programmed by the customer. That's not true in the
24 patent.

25 | Now, I told you the RocketIO was in June

1 of 2000. We put it out in 2002. And in all the
2 meetings, in all of the conversations we had with all of
3 our stuff on the internet with our engineers talking to
4 their engineers, not one time, not once did they ever
5 say to us: Oh, gosh, your RocketIO has already got our
6 patent in it. Let's talk about that.

7 Those words never fell from their lips.
8 Now, don't you know that if they really thought their
9 patent covered the RocketIO, they might have just
10 mentioned it to us one day, sent us an e-mail, when
11 their engineers are talking, saying, gosh, you've
12 already got our technology.

13 That's untrue. They didn't do that, not
14 one single time. And that pretty much tells the tale
15 right there.

16 Now, you heard about what I'm going to
17 now call the conspiracy theory. Oh, Xilinx had a plan.
18 They conspired to get PACT's chips. The truth is that
19 from 2001, Mr. Bolsens, Ivo, has probably talked to over
20 400 companies, startup companies that come to him with
21 new ideas. A very few we've liked; most we have not.
22 There was a list of competitors for Xilinx. PACT is on
23 there. It was No. 245. It was not a significant
24 competitor, because they didn't make any chips. They've
25 never sold any chips. You heard them talk about how

1 there was this company that was interested in their
2 chips in Europe, put satellites up.

3 Well, it will be interesting to see how
4 many of their chips are actually in a satellite, because
5 I think the answer is none of them are. They simply
6 haven't been able to get them to work, and, therefore,
7 no one's ever paid them any royalty for using their
8 chips.

9 And, finally, I want us to see -- when
10 you see they have a strong patent portfolio, Mr. Bolsens
11 is going to testify about that. At the time someone
12 wrote that, they hadn't even looked at the patents.
13 They just knew they had numbers.

14 But here's the key to that. This is from
15 Mr. Bolsens in 2005 talking about PACT: They are,
16 however, well-positioned from a patent point of view.
17 If you believe that coarse grain arrays will prevail in
18 the future, they have a strong patent portfolio of 60
19 patents filed and 30 approved in this field.

20 Now, here's what you need to keep in
21 mind, the critical words there are course grain array.
22 And the course grain array is their initial concept of
23 being able to have a FPGA that you can, in midstream, in
24 doing whatever it is the manufacturer or the customer
25 wants it to do, it stops, it halts, and it reprograms

1 itself and rewires itself. That's called coarse grain
2 array.

3 And that really was their idea, and they
4 have patents on that. But, Ladies and Gentlemen, it
5 didn't have anything to do with a bus system. It didn't
6 have anything to do with a bus system that was permanent
7 and fixed. Coarse grain array is something entirely
8 different.

9 And that's why Mr. Bolsens and the
10 engineers at Xilinx were even looking at their patents,
11 because there was a possibility that coarse grain array
12 could work; and if so, they'd be interested in PACT, but
13 if it didn't work and no one uses it in the way that
14 PACT has its patents, no one, then those patents were
15 not of interest to us.

16 We weren't planning on their bankruptcy.
17 We weren't planning on their demise. We knew they were
18 a small startup company that had horrible internal
19 problems. You're going to see some documents about
20 that, some from Mr. Vorbach himself, that they were not
21 well-organized, and they were not a success.

22 At the end of the day, if you look at the
23 patent as a whole, look at the claims, and look at what
24 Judge Payne tells you that those claims mean, he told
25 you that the bus system control has to be permanent,

1 their patent. The only way that you ever have to pay
2 any monies is if you infringe the patent. And so she's
3 going to give you a way to analyze damages, but I
4 believe that when Judge Payne gives a charge, as he
5 will, and gives you a verdict form that he will tell you
6 that unless you find infringement, you never get to
7 damages.

8 And because I believe so strongly that
9 you will find that we do not infringe their patents, you
10 will not ever have to worry about damages, but I just
11 wanted to make sure that you understood that I've got
12 to, under the law, talk about this thing that
13 Mr. Carroll last week or two weeks ago called the
14 play-like negotiations. It's called the Georgia-Pacific
15 Factors, and it's called a hypothetical negotiation, one
16 that didn't take place.

17 And so we have to answer that, and we've
18 got to give you a way of looking at those factors to
19 arrive at a number that is -- would make some sense.
20 But I do not agree that we infringe the patents. The
21 evidence will show that we don't, and as a result of
22 that, when we get to damages, you will know that we're
23 doing it because we have to, but not because we ever
24 agree that we infringe the patents.

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25 |         Xilinx is a company that has been built
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1 on integrity. We are the leader in the field. We are
2 innovative. From the very get-go, when Mr. Freeman had
3 his idea of how to make these chips that change the way
4 people think about computer chips, from his patent
5 forward, we have always done it the same way.

6 We've tried to get better at it, but
7 we've always done it the same way. We've always had
8 building blocks that build upon one upon another that
9 you have to program in order to get them to work.

10 If they had a chip and you could get it
11 and you wanted to put it in your television, you could
12 take their chip and plug it in, and at least as far as
13 the bus system control is concerned, once you powered it
14 on, it was working and it was fixed and it was
15 permanent.

16 If you took our chip and plugged it into
17 the same television and turned on the power, it would
18 set there like my child and homework, and do nothing.
19 It won't work. The bus system control will not work
20 until someone programs that chip to make it work.

21 You have to tell it what you want it to
22 do. You have to tell it what language to speak. You
23 have to tell it what its parameters are. You've got to
24 tell it how fast to go. But it won't work out of the
25 box, and theirs will, and that's the critical

1 difference.

2 So at the end of the day, after you hear
3 all the testimony, I think you're going to find, number
4 one, that we do not infringe the patent; and, number
5 two, we were honest with PACT. We told them that we
6 were not interested in their technology, not once, not
7 twice, but three times. And they kept coming back with
8 different ideas.

9 But when they came back to us, what they
10 really were talking about were the -- was the
11 programmable portion of the chips.

12 THE COURT: Thank you, Mr. Baxter.

13 MR. BAXTER: There wasn't any
14 conversation about the bus, and you'll find that true.

15 Thank you, Your Honor. I appreciate it.

16 THE COURT: All right.

17 MR. BAXTER: Ladies and Gentlemen, we
18 look forward to bringing this case to you.

19 THE COURT: Ladies and Gentlemen, we're
20 going to take the morning recess now. We're a little
21 bit off schedule, but I wanted to finish up the opening
22 statements. We'll take a 15-minute recess, and then
23 we'll go for about an hour and take the lunch recess at
24 that time.

25 Let's rise.

1 LAW CLERK: All rise.

2 (Jury out.)

3 THE COURT: We'll be in recess for 15
4 minutes.

5 (Recess.)

6 (Jury in.)

7 COURTROOM DEPUTY: All rise for the jury.

8 THE COURT: Thank you. Please be seated.

9 Mr. Grinstein, you may call your first
10 witness.

11 MR. GRINSTEIN: Thank you, Your Honor.
12 And just for the record, I will invoke the Rule at this
13 point.

14 THE COURT: All right. Do you have
15 witnesses present in the courtroom, other than the one
16 who is about to testify and other than the experts?

17 MR. GRINSTEIN: No, Your Honor.

18 THE COURT: Mr. Baxter, does the --

19 MR. BAXTER: No. We have experts here,
20 Your Honor, and the client representative, Mr.
21 Trimberger, who to my discredit I didn't introduce to
22 the jury but he's here.

23 THE COURT: All right. And he'll be your
24 representative --

25 MR. BAXTER: Yes, sir.

1 THE COURT: -- so there's no witnesses
2 to be sequestered. If the Rule's been invoked, however,
3 both sides will be responsible for making sure that they
4 don't have nonexpert witnesses who come into the
5 courtroom during any of the proceedings. If the Rule is
6 violated, there will be problems regarding those
7 witnesses testifying, so that each side better watch
8 over that.

9 You may proceed.

10 MR. GRINSTEIN: Your Honor, for our first
11 witness the Plaintiff, PACT, calls Martin Vorbach.

12 THE COURT: All right. Mr. Vorbach, you
13 may come up to the stand and be sworn.

14 (Witness sworn.)

15 THE COURT: Thank you. Please have a
16 seat. If you would pull that microphone a little bit to
17 you as you sit down --

18 THE WITNESS: Okay.

19 THE COURT: -- that'll help. Thank you.

20 MARTIN VORBACH, PLAINTIFF'S WITNESS, SWORN

21 DIRECT EXAMINATION

22 BY MR. GRINSTEIN:

23 Q. Could you please state your name for the jury?

24 A. I am Martin Vorbach.

25 Q. And Mr. Vorbach, where do you live?

1 A. I have two places of living. I live in
2 Lingenfeld, Germany and have another place in Cupertino,
3 this is in California in the Silicon Valley.

4 Q. Are you married, Mr. Vorbach?

5 A. Yes, I'm married with my wife Suzanna.

6 Q. Any kids?

7 A. I have two kids, two sons, Adrian and Julian.

8 Q. And what is your relationship to the Plaintiff
9 in this case, PACT?

10 A. I am the founder of PACT and the -- the CTO,
11 the Chief Technology Officer of the company.

12 Q. Okay. And as you heard in the opening
13 statement, this case is about the '181 and the '106
14 patents. What do have to do with those two patents?

15 A. I'm the lead inventor of both patents.

16 Q. All right. Let's talk -- begin our
17 conversation by talking a little bit about your
18 background. Where did you grow up?

19 A. I grew up in a small town in South Germany in
20 Heidenheim.

21 Q. And when did you first realize that you were
22 interested in technical or mechanical, that sort of
23 thing?

24 A. When I was a kid I used to disassemble every
25 electronic or mechanical component in our house, so it

1 was a nightmare for -- for my parents, that as soon
2 as -- as I got older, with a screwdriver I would
3 disassemble something. And after a while they thought,
4 okay, let's give the kid something which was broken so
5 that he don't create any mess. And they gave me, for
6 instance, a broken calculator and I disassembled it, I
7 tried to assemble it again, and I can say it started
8 really with this broken calculator, I put it together
9 and it worked, so --

10 Q. How old were you at this time?

11 A. -- this is how it happened. I was 6, 7, that
12 age.

13 Q. And did you continue to have an interest in
14 technical things when you were that young?

15 A. Yes, absolutely. After that I -- I started to
16 go to the local TV shop and ask them for broken TVs, and
17 I took them with me, and tinkered around with them just
18 to see whether I can fix them or -- I mean, in the
19 beginning I just wanted to have an idea how these things
20 worked. And later on I figured out, okay, quite of --
21 some of them I can fix and I looked for -- for the spare
22 parts and fixed them, and yeah, this is how -- how it
23 began.

24 Q. How old were you when you were fixing TVs?

25 A. 7, 8.

1 Q. And did there come a time in which you got
2 interested in computers?

3 A. Yes. In 1979, my dad's construction company
4 bought some of the very early computers, and the funny
5 thing was at -- at first, how shall I say -- how shall I
6 say, the -- the concept was lock the door where the
7 computers are and never let the kid into the computer
8 room. He will disassemble the computers.

9 Now, some days in the late, late '79, they had
10 a problem with that computer, it's a specific one. And
11 ultimately they asked me, look at -- look at computer.
12 Can you figure out what it is? Now, this was something
13 completely new for me. I had never touched software or
14 the programming level of that computer and it took me
15 about one to two days to go through manuals and -- and
16 just think through it, and ultimately I fixed the
17 problem with this computer.

18 Q. How old were you then?

19 A. 9.

20 Q. And what did you come to think about the
21 computers in your dad's construction business?

22 A. They were way too slow. I mean, as of today
23 you can buy dishwashers which have much more computing
24 performance just to figure out how to wash the dishes
25 than those computers back then.

1 Q. So what did you do?

2 A. Ultimately I asked my father for permission to
3 build my own computer system. Maybe I should say that
4 before I did that, I was maintaining those computers
5 already for some time and I started writing software for
6 the company the -- the people there came to me and said
7 well, could you write a piece of software for this or
8 that. So I got some experience, and yeah, ultimately I
9 asked my dad do you allow me to buy a faster computer
10 for the company.

11 Q. Were you going to buy a computer or build it?

12 A. No, the idea, the concept was that I -- I made
13 a schematics, a plan how to build a computer, then I
14 made a design of the printed circuit boards, this is
15 these boards which you see in all the electronic
16 components or electronic devices and I went to a shop
17 and bought the integrated circuits, all those little
18 tiny things which are on those boards and soldered it
19 together.

20 Q. How old were you when you finished this
21 computer?

22 A. 15.

23 Q. And after you'd finished your -- the first
24 iteration of the computer, I guess, did you continue to
25 tinker on it?

1 A. Yes, absolutely. The point is the
2 computations in constructions are very complicated,
3 particularly if you have large buildings. You have to
4 ensure that the building is stable and does not
5 disintegrate, so those are complex calculations and I
6 figured out that even this new computer was too slow and
7 ultimately I had the idea to put multiple, many of those
8 boards together and form a parallel computer to enhance
9 the processing speed.

10 Q. What is a parallel computer?

11 A. You can think of a parallel computer like that
12 it is performing many tasks at the same time. So it's
13 not limited to just doing one task, one program, one
14 kind of mathematical calculation, but it can do multiple
15 at the same time.

16 Q. And what grade were you on when you were
17 working on this parallel computer?

18 A. I was in high school.

19 Q. Okay. What did you do after high school?

20 A. I went to the German Army.

21 Q. Was that a volunteer, mandatory, how did that
22 work back then?

23 A. It was mandatory at that time.

24 Q. And what was your job in the Army?

25 A. I was a radio operator then.

1 Q. When did you complete your military service?

2 A. This was in 1990 -- 1990.

3 Q. What did you do after that?

4 A. I went to the University of Karlsruhe to study
5 computer science.

6 Q. Where is the Karlsruhe?

7 A. This is in the southwest part of Germany.

8 Q. Okay. Now, you -- do you remember me in
9 opening discussing these things called configurable
10 chips, do you remember that?

11 A. Yes, I do.

12 Q. Now, were these configurable chips things you
13 were discussing or studying at the University of
14 Karlsruhe?

15 A. No, back at that time, configurable chips were
16 not -- they're known in the industry and -- and
17 universities didn't talk about them. So the studies or
18 the classes I took were about PCs, about personal
19 computers like an IBM desktop computer.

20 Q. So how did you first learn about these
21 configurable chip things?

22 A. Well, I was using, you can say, the
23 predecessors of those chips, the so-called PLDs,
24 Programmable Logic Devices, for the computers I had
25 built for my father's company.

1 Q. Did you also hear me in opening refer to these
2 things called FPGAs?

3 A. Yes.

4 Q. When did you first use an FPGA?

5 A. This was in 1995.

6 Q. Okay. Let's -- skipping ahead a little bit, I
7 want to stay in your college years, and we -- we talked
8 a minute ago about this computer that you built for your
9 dad when you were 15 years old. Did you continue to
10 work on it while you were in college?

11 A. Yes, I did. At that time, a new technology
12 came to the market, which was called transputers. They
13 were parallel processor -- processors which made
14 implementing parallel computer systems easier than the
15 old technology.

16 Q. And did working with these transputers spark
17 any ideas in your head?

18 A. Yes, it did. Transputers were still similar
19 to my old concept means, parallelizing compete shops,
20 which means if you think of a company, you go to one
21 employee and say you do -- you do this; you go to
22 another employee and say you do that. So you -- you
23 parallelize on a shop-level basis.

24 Now, the idea which, how shall I say, sparked
25 in my mind, was that I can get a better efficiency out

1 of my system if I do not parallelize only on a shop
2 basis but also, let's say, on a microbasis, means you
3 can imagine that one single person is able to staple
4 paper, read paper, and print paper at the same time.
5 This is called instruction level parallelism which means
6 handling multiple instructions at the same time.

7 Q. And what did you do with your new ideas about
8 instruction-level parallelism?

9 A. I wrote a patent about it, which I filed in
10 Germany in 1993.

11 Q. And did the German Patent Office grant you
12 that patent?

13 A. Yes, it did.

14 Q. How old were you at the time?

15 A. When they granted it?

16 Q. Yes.

17 A. I filed it when I was 23. I think they
18 granted it when I was 25.

19 Q. Now, is that one of the two patents that's in
20 this lawsuit today?

21 A. No, it relates to different aspect of our
22 technology.

23 Q. All right. I want to talk to you about the
24 patents that are in this lawsuit today. You understand
25 those are the '106 and '181 patents?

1 A. Yes.

2 Q. Are you the only inventor on those patents?

3 A. No, I invented those patents together with Mr.
4 Robert Munch.

5 Q. Now, this Robert Munch, when did you meet him?

6 A. I met him at the University in Karlsruhe.

7 Q. Was he a professor, student, what was he?

8 A. He was a student. We had the same classes
9 together and this is where I met him.

10 Q. And at that time did you-all agree to work
11 together?

12 A. Yes. We decided to found a company which
13 would do business in the construction area with my
14 knowledge, also the medical area, and I would -- I
15 wanted to continue the research on those transputers on
16 those parallel processing technologies.

17 Q. What did you name this new company?

18 A. We gave it an acronym it was SCRIP, which
19 would be SCRAP in English.

20 Q. SCRAP is not a really good name for a computer
21 company in the construction business, is it?

22 A. No, absolutely not, but you've got toward the
23 German centric at that point in time and didn't think
24 about the -- the English word, the English translation.

25 Q. So what sort of things did SCRAP -- what sort

1 of industries did SCRAP end up working in?

2 A. Well, as that we work -- we were working in
3 the construction industry, so we were providing software
4 to construction companies. We were writing software for
5 the medical industries, industries for doctors. This,
6 by the way, how I met my wife, she's a nurse by
7 education and well our most famous customer was
8 certainly Porsche, the car company, they used our
9 computer systems for information terminals at trade
10 shows.

11 Q. Now, you said that you were working with SCRAP
12 with Mr. Munch; is that correct?

13 A. Yes.

14 Q. How did you divide up job responsibilities at
15 SCRAP between the two of you?

16 A. Okay. Mr. Munch was a very good programmer,
17 so we said -- or we decided that he will do the software
18 tasks. I on the other hand, I mean, I was writing
19 software since I was 9 year old, so I was a bit tired of
20 it and wanted to focus on the hardware development.

21 Q. Can you just explain to us what's -- what's
22 hardware?

23 A. Okay. If you go to a computer store and you
24 buy this metal box which you carry home, this is the
25 hardware, the computer system, this metal box you carry

1 home is the hardware. Now, if you compare it to
2 software, software would be if you put a DVD in the
3 drive and you load software like a word processor, then
4 this is the software means the -- the thing which tells
5 the computer what to do.

6 Q. Now, what was it like working with Mr. Munch
7 back at SCRAP?

8 A. It was a bit rocky, honestly. So we got some
9 issues, and split up for a while.

10 Q. Did you get back together?

11 A. Yes. After about a year we sorted those
12 issues out and we started working together again.

13 Q. All right. Now, while you were at SCRAP, were
14 you still in college?

15 A. Yes.

16 Q. Did you finish your college degree?

17 A. No, I did not. At some point in time I had to
18 make the decision do I want to focus on the business and
19 the company or do I want to spend the time for my
20 studies. It was an either/or, either/or decision and I
21 decided for the company.

22 Q. So what happened to SCRAP?

23 A. One of our sales guys figured out about this
24 patent I had for instruction of parallelism processing,
25 and he was pushing us to implement it. We figured out

1 that this required so much money we couldn't use the
2 income which the company generated, so we -- so we
3 decided to go out and look for investors.

4 Q. And did you find that money?

5 A. Yes, we did.

6 Q. After you got those investments, did you form
7 a new company?

8 A. We formed a new company. This is called PACT.

9 Q. What does PACT stand for?

10 A. Processing Array Computer Technology.

11 Q. So did you pay attention to the English that
12 time?

13 A. This time, yes.

14 Q. When did you form PACT?

15 A. This was 1996.

16 Q. And is the PACT back from 1996 the same PACT
17 that's the Plaintiff in this lawsuit?

18 A. Yes, essentially it is. We went through
19 through -- through a few name changes, mainly we changed
20 the extension of PACT when it means -- it was first PACT
21 Technologies, GmbH, then it became PACT XPP
22 Technologies, so this -- words changed. Also we changed
23 the form, the legal form, from a German GmbH to an AG.
24 An AG is similar to a U.S. Inc., but essentially it's
25 the same company.

1 Q. Do you still work for PACT today?

2 A. Yes, I do.

3 Q. Full time or part time?

4 A. Part time.

5 Q. What do you do with the rest of your time?

6 A. I am forming right now another company which,
7 again, is focusing on computer technology but a
8 different technology.

9 Q. Do you draw a salary from PACT?

10 A. I do.

11 Q. I want to show you DX 915. I think you've got
12 two binders up there in front of you?

13 A. No.

14 Q. Don't have the binders.

15 MR. GRINSTEIN: Your Honor, may I
16 approach?

17 THE COURT: Yes.

18 Q. (By Mr. Grinstein) There are your binders.

19 A. Thank you.

20 Q. I think this exhibit is going to be in binder
21 No. 2. You could also look up at the screen on it.

22 A. Okay.

23 Q. Okay. Can you -- can you tell us what DX 915
24 is?

25 A. This is an English translation of my current

1 contract with PACT.

2 Q. And when did you enter into your current
3 contract with PACT?

4 A. This was in February 2011.

5 Q. Okay. And under this contract with PACT, are
6 you entitled to any of PACT's income?

7 A. Yes, I am.

8 Q. How does that work?

9 A. I get a percentage on PACT's income. This is
10 8 percent on all -- all income above \$6 million and the
11 percentage increases as the income of PACT increases.

12 Q. What qualifies as income?

13 A. Sales of products, licensing of designs,
14 licensing of patents, sales of patents, this lawsuit,
15 for instance, just every kind of income.

16 Q. All right.

17 MR. GRINSTEIN: Take that down with you.

18 Q. (By Mr. Grinstein) I want to change subjects
19 now and talk to you about the technology in this case.

20 Now, did you hear me in the opening statement
21 refer to this bus interface technology?

22 A. Yes.

23 Q. Okay. Now, I want to be really careful here.
24 The Court has defined some of the terms for the jury and
25 I do not mean for you to be redefining what the patents

1 mean or what the terms mean. I just want you to explain
2 when you were developing these inventions, what did you
3 understand a bus interface to be?

4 A. Okay. In very broadly spoken, it's the means
5 to move data between inside a chip and the outside
6 world.

7 Q. And just so we're all on the same page, what's
8 a chip?

9 A. A chip is -- is -- how shall I say, it's an
10 electronic component inside a computer, for instance --
11 for instance, or inside a mobile phone which moves,
12 stores, processes data. So it's -- you can say the
13 brain inside your computer system or inside your TV,
14 your electronic -- your electronic devices.

15 Q. What year did you come up with the ideas that
16 led you to file for the patents that are in this
17 lawsuit?

18 A. This was when I designed the emulator in 1995.

19 Q. Okay. Let me show you Demonstrative 1. Hold
20 it up right there and then I'll put it under the ELMO so
21 everyone can see it a little easier. What is
22 Demonstrative 1?

23 A. This is the emulator I designed in 1995.

24 Q. What is an emulator?

25 A. Okay. If you design chips, the chip design is

1 very expensive. It costs a lot of money. It's similar
2 to designing an airplane or designing a car. So before
3 you really built the first, let's say, airplane or car,
4 you want to simulate that it really works. It's -- it's
5 similar with chips. You want to simulate whether your
6 chip design works and this is what, for what we are
7 using in the electronic world, emulators just to
8 simulate our design, our concept.

9 Q. Well, I guess one thing I don't understand,
10 Mr. Vorbach, is computer chips I've seen are really
11 small and this thing looks pretty big. So why the
12 difference?

13 A. Okay. You can say it's the other way around
14 compared to airplanes. If you simulate the airplane,
15 your computer is pretty small and the airplane is pretty
16 big. Now, in our world, the emulator is pretty big and
17 the final chip is rather small. So it's the similar
18 relationship.

19 Q. Let's take a look and see if we have something
20 that can explain that. Right now I want to show you
21 Demonstrative No. 2. And can you tell us what
22 Demonstrative No. 2 is?

23 A. Yes, this is a so-called wafer. On this wafer
24 disk are -- on this particular one are 65 of our XPP 128
25 chips.

1 Q. So these are PACT chips on this wafer?

2 A. Yes, those are ours.

3 Q. And just in terms of raw materials and money
4 and everything, how much did it cost PACT to generate
5 this wafer?

6 A. At that time, approximately \$750,000.

7 Q. Is that the reason why you simulate a chip
8 design on an emulator like that?

9 A. Yes. Absolutely, yes.

10 Q. All right. I want to go back and talk to you
11 a little bit more about this emulator board. Now I'm
12 going to flip it over. And if I can figure out how to
13 zoom, I'm going to zoom up, turn that around. There we
14 go.

15 Right there I see some writing on -- on the
16 emulator board -- and maybe I'll zoom a little bit more
17 so it's easier for folks to see. That writing says
18 SCRAP 1995 M. Vorbach; can you explain what we're
19 looking at right there?

20 A. Yes. This means I have designed this board in
21 1995 while I was working inside the company SCRAP.

22 Q. That's your name on there?

23 A. Yes.

24 Q. Is Mr. Munch's name on there?

25 A. No.

1 Q. Now, I'm going to flip this emulator board
2 over again, and on this board, I see these four big
3 chips right there. And we'll take it out a little, zoom
4 it out a little bit. I see these four big chips right
5 here.

6 A. Yes.

7 Q. What are those?

8 A. Those are Altera FPGAs.

9 Q. Who is Altera?

10 A. Altera is the second larger maker of FPGA
11 devices in the market.

12 Q. Okay. Why did you put FPGA chips on your
13 emulator board?

14 A. Well, FPGA chips comprise configurable logic,
15 so you have small cells in them which you can -- can
16 configure to perform -- to perform any function which
17 you like them to perform. So if you implement a piece
18 of hardware, the ideal platform to use as you can make
19 them behave like the design you want actually to build.

20 Q. And so what did you do with this emulator
21 board after you built it?

22 A. The concept was to -- yeah, to configure the
23 FPGAs to behave like my instruction level parallelism
24 processor.

25 Q. Okay. Tell the jury what it was that sparked

1 the idea in your head that led to the inventions in this
2 case.

3 A. Okay. Can I have a laser pointer?

4 Q. Is there a laser pointer up there?

5 MR. GRINSTEIN: Sorry. May I approach
6 again, Your Honor?

7 THE COURT: Yes.

8 A. You can see here that several chips, those --
9 those are, by the way, chips, are surrounding those four
10 FPGAs. We have a bank of chips here, we have another
11 bank of chips here, third one here, and another one
12 which looks differently here. Also you can see that
13 this chip bank again looks different from those two and
14 you can see that here is a further chip which says video
15 on it.

16 So the issue I had with this board was that I
17 had to build interfaces, means I have to enable this
18 FPGAs to talk with all those surrounding chips. And I
19 figured out that instead of, how shall I say, focusing
20 on my design on the thing I really wanted to build, I
21 had -- I had to base even months, not only week, but
22 months of work, of design work, to implement the
23 interfaces to talk to these surrounding devices.

24 Q. (By Mr. Grinstein) Did you like doing that?

25 A. Not -- not at all. I mean, it was a waste of

1 time for me.

2 Q. Did configuring those interfaces also cause
3 you space problems on those chips?

4 A. Yes, absolutely. The space, I mean, I wanted
5 to use the space inside these devices for my design for
6 the thing I wanted to build. But instead of -- of
7 having or using the space for my design, I had to waste
8 the space, or a significant amount of the space, such to
9 integrate the interface for talking to the surrounding
10 units on the board.

11 Q. And what did doing all that integrating do to
12 the speed and the power on this thing?

13 A. Well, a significant issue, for instance, I had
14 here with the video interface, you know, video is a lot
15 of information, so to produce a picture, to produce a
16 movie, you know how much data today is on a Blu-ray or
17 on a DVD. So you have to transport a large amount of
18 data between your processor and this thing which brings
19 the picture to your screen. So I had significant speed
20 issues here, and this was the first problem.

21 The second problem was that I had or I saw
22 that I waste a lot of power, I used a lot of energy just
23 to provide the power, the -- the -- yeah, the energy to
24 the units managing the interface or being the interface.

25 Q. So did all those ideas or all those issues

1 spark any kind of idea in your head?

2 A. Yes, I -- I had the idea it would be much
3 nicer if I had permanent interfacing circuitry on this
4 board, which would be there. I would not have to take
5 care about that -- that interfacing circuitry. It's
6 there. It doesn't waste my time. It doesn't waste
7 space and energy on the system. Also the idea was if I
8 have an optimized interfacing circuitry, it is
9 optimized, it is -- it is permanent. It's made for this
10 purpose. So I can optimize the power dissipation and
11 the speed significantly compared to a -- to a -- to a
12 implementation where I have hundreds or thousands of
13 logic cells which consume much more power which are much
14 slower simply as it is larger, the signals require more
15 time to travel through this large area.

16 It's like drive in a car. If you go to a city
17 close by, it's quick. If you drive from here to Dallas,
18 it takes you a long time. It is -- it is similar there.
19 So I had a significant improvement in time as I was
20 optimized. I had a significant improvement in power
21 dissipation as that was optimized.

22 Q. So just so we're clear, what do you mean by
23 permanent?

24 A. Permanent means that a predefined interface
25 was sitting there, which was built for the purpose of

1 interfacing. Now, it could, for instance, interface to
2 these devices or it could interface to those, to this or
3 this, which means think of -- of it as -- as a
4 translator. Imagine you are going to Germany or Japan.
5 Now this would mean that -- or you may want to learn the
6 language so that you can communicate with the people
7 there.

8 Now, if you sit down, learn the language, it
9 takes you months, years maybe to learn this language.
10 On the other hand, you could say, well, I get a
11 translator for me, a dedicated permanent translator
12 which is with me, and use this person to translate from
13 English to German or to Japan -- to Japanese. On the
14 other hand, you could tell your translator which
15 language the translator shows me. Means in that case,
16 here I would tell this translator speak to these
17 particular chips. You see they look different than
18 those chips or this chip or this interface block here.

19 So the idea was having a translator there but
20 being able to tell the translator speak the language
21 those chips are talking or speak the video language for
22 this chip. Speak the memory or the -- the -- yeah, the
23 language for this chip or speak this -- this language
24 for this interfacing unit on the left corner.

25 Q. So just so your analogy is clear, in your

1 analogy, what is the translator?

2 A. The translator would be my permanent bus
3 interface.

4 Q. And in your analogy do you ever give
5 instructions to your translator or do you just take your
6 translator out of the box and forget about him?

7 A. No, I would have to tell the translator, do
8 you speak this language, do you speak the -- the video
9 language or do you speak, for instance, this language or
10 there which, again, looks completely different.

11 Q. Do you have to teach your translator those
12 languages?

13 A. No, I program it and tell him to speak --
14 speak this language.

15 Q. Now, did you write down any of your ideas for
16 this permanent bus interface invention?

17 A. Yes. At the time I was -- I was designing
18 this board, I made -- I made drawings. I made -- I made
19 schematics and drew diagrams for it.

20 Q. Let's take a look at Plaintiff's Exhibit 89,
21 and you might want to look in your book on this one.
22 It's in your book on this one, Mr. Vorbach. It should
23 be in the first book.

24 A. Okay. 89?

25 Q. 89.

1 A. Okay. I've got it.

2 Q. Can you tell us what Plaintiff's Exhibit 89
3 is?

4 A. Those are some of the drawings I made in
5 the -- yeah, you can say in the early days when we were
6 doing the conception of our technology.

7 Q. Turn with me to the page that's labeled 704.

8 A. 7 -- I'm there.

9 Q. What's this drawing?

10 A. This is -- this drawing shows the interfacing
11 circuitry. You can see here we have here configurable
12 components. In our technology, we call them PAE. So
13 this is the configurable part of the -- of the chip of
14 the design.

15 We then have lines going from the configurable
16 components to this block called IORT. Now, those --
17 those lines are many wiring which carry electrical or
18 electronic signals.

19 Here the IORTs, these are particularly the
20 parts I'm talking about. You can see here four of them.
21 Here's one; here; here's another one; and here's yet
22 another one (indicates). And those IORTs are getting
23 the internal lines. They are combining the lines and
24 forming a bus system, which is then in communication
25 which -- with the external units.

1 You can see here ex RAM. This means external
2 read access memory. RAM is a term in our industry.

3 Q. So just so we're clear, these IORTs, what do
4 those have to do with your invention?

5 A. Those IORTs are the permanent bus interfaces
6 on the chip.

7 Q. All right. Up there in the right-hand corner,
8 I see a little indication.

9 MR. GRINSTEIN: Matt has helped blow it
10 up for us.

11 Q. (By Mr. Grinstein) Can you tell us what that
12 indicates?

13 A. Yes. This means -- M.V., which I wrote the
14 drawing, Martin Vorbach. And this date is actually the
15 German writing of a date. In Germany, you have the day
16 first, then the month, and then the year. So this was
17 done June 29th, 1995.

18 Q. That's the date of this particular drawing?

19 A. Yes.

20 Q. And M.V., who does that M.V. stand for?

21 A. It's me, Martin Vorbach.

22 Q. Is Robert Munch on this drawing?

23 A. No.

24 Q. Now, did you actually ever implement the
25 concepts in this drawing in anything?

1 A. Yeah. First of all, we used it on this
2 emulator board to interface with the surrounding -- with
3 the devices surrounding the FPGAs.

4 Q. Can you explain?

5 A. Yeah. I -- I configured this -- you can say
6 this interfacing units together with the PAEs with our
7 configurable technology inside the FPGAs to simulate, or
8 as we say, to emulate our design. So it was inside the
9 FPGAs.

10 Q. And, Mr. Vorbach, I think it might be a little
11 bit better if you came forward a little bit.

12 A. Oh, I'm sorry. Yeah.

13 Q. There you go.

14 Now, other than work on this emulator board,
15 what did you do with your new ideas about this permanent
16 bus interface circuitry?

17 A. We filed a patent in Germany.

18 Q. And when did you do that?

19 A. This was 1996.

20 Q. Were you the only inventor listed on that
21 patent?

22 A. No. We also listed Robert Munch.

23 Q. Who was listed first?

24 A. It's me.

25 Q. Why?

1 A. Well, first of all, the clear definition
2 inside SCRAP was I'm the hardware guy. I'm doing the
3 hardware work. Robert Munch was doing the software
4 work. So naturally, it was my work. As you also can
5 see on the emulator board, I did it, so I was listed
6 first.

7 Q. Just to be clear, when you filed this patent
8 application, was it SCRAP or was it PACT? It was 1996?

9 A. 1996 was already PACT.

10 Q. So you -- the decision was made to list you as
11 the first inventor; is that right?

12 A. Yes.

13 Q. Did Mr. Munch argue about that?

14 A. No. It was clear that -- that this was a
15 hardware task, that I made this invention. This was my
16 job.

17 Q. Well, can you describe Mr. Munch's role in
18 these inventions?

19 A. Yes. He took, how shall I say, the
20 preconfigured board, so to say, and then put his
21 software on the boards, which means we had two levels of
22 programming. First was just to make the board look like
23 we wanted it to look to simulate our design, and then he
24 later claim and he worked with the design, programmed
25 it, and tested software, tested algorithms on that

1 design.

2 Q. So do you dispute that he's a co-inventor?

3 A. No. Absolutely not, no.

4 Q. Now, did you eventually apply for some United
5 States patents on these particular inventions?

6 A. Yes, we did. In 1997.

7 Q. Let's run through those patents very quickly.
8 I want you to look at Plaintiff's Exhibit 4. You've got
9 a copy. I've got the original of Plaintiff's Exhibit 4
10 right here.

11 Do you see Plaintiff's Exhibit 4?

12 A. Yes.

13 Q. And what is Plaintiff's Exhibit 4?

14 A. This is the original United States patent,
15 which we got issued.

16 Q. And why does it have this fancy ribbon thing
17 on the front?

18 A. This says that this is the original patent,
19 which is USPTO, the U.S. Patent Office, has issued to
20 us.

21 Q. Okay. Can you turn to the second page of
22 PX 4, and I just want to discuss with you some of the
23 things that are said on this particular page.

24 First of all, when did you apply for this
25 patent in the United States?

1 A. We applied for it in -- on October 8th, 1997.

2 Q. Was it related to any previous patent
3 applications?

4 A. Yes, it was. You can see two lines below, it
5 first says foreign patent -- foreign application
6 priority date. And there it says December 20, 1996,
7 Germany, and the application number was 196 54 595.

8 Q. Is that the German patent that you just
9 discussed, the patent application you just discussed?

10 A. Yes. Exactly. This is the patent we filed in
11 Germany.

12 Q. Was there any difference between the patent
13 application that you filed in Germany and the patent
14 application that you filed in the United States that led
15 to this patent?

16 A. No, only the -- the language is different. It
17 has been translated to English.

18 Q. Okay. When did the United States Patent
19 Office issue this patent?

20 A. This one got issued September 12th in 2000.

21 Q. Now, we mentioned that you applied for the
22 German patent in December 1996, so is that when you
23 conceived of the inventions in this patent?

24 A. No, actually not. This was when we built
25 this, this emulator board in 1995.

1 Q. How would you describe the inventions in this
2 patent?

3 A. I would look to the claims.

4 Q. Okay. So if you flip to the back of the
5 patent, last couple pages, this area right here
6 (indicates), are you saying that that is what describes
7 your inventions?

8 A. Yes, those are the claims. This is the
9 definition, the description of our inventions. Yes.

10 Q. Do you and Mr. Munch still own this patent?

11 A. No. We assigned it to PACT.

12 Q. Let me show you Plaintiff's Exhibit 781 (sic).

13 MR. GRINSTEIN: Maybe if you go three
14 pages in, please, Mr. Boles.

15 Next page.

16 Q. (By Mr. Grinstein) If you want to look at it
17 on the screen, it might be a little easier.

18 What is Plaintiff's Exhibit 781 (sic)?

19 A. This is the assignment -- this is the
20 assignment document where we assigned the patent to the
21 company, PACT.

22 Q. And I see one of the parties is PACT GmbH.
23 Did that eventually become PACT in this case?

24 A. Yes, exactly.

25 Q. So does the Plaintiff PACT in this case own

1 the '181 patent?

2 A. Absolutely. Yes.

3 Q. Let's switch patents. I want to talk about PX
4 5, this guy.

5 And if we look at the second page of PX 5,
6 tell us which patent PX 5 is.

7 A. PX is a continuation -- it's -- it's the '106
8 patent.

9 Q. Okay. And is PX 5 related to any previous
10 patent applications or patents?

11 A. Yes. It's a continuation of the '181 patent.
12 You can see that in Line 63.

13 Q. Right there (indicates)?

14 A. Yes. Here it says continuation of application
15 number, and it's filed on October 8th, 1997, now, patent
16 6,119,181.

17 Q. Okay. And when did you file for this
18 particular application?

19 A. We filed this June 18th, 1999.

20 Q. And it was issued when?

21 A. January 8th, 2002.

22 Q. Just so that we have everything complete, can
23 you look at Plaintiff's Exhibit 781 (sic) and --

24 MR. GRINSTEIN: 781 (sic), please.

25 Q. (By Mr. Grinstein) What is Plaintiff's Exhibit

1 781?

2 A. This is the assignment document where I --

3 Q. I'm sorry. It was 780. My mistake. 780.

4 A. Okay. This is the assignment document where I
5 and Robert Munch assigned the '106 patent to PACT.

6 Q. Okay. So does the Plaintiff in this case,
7 PACT, own the '106 patent?

8 A. Yes. Absolutely.

9 Q. And, again, how would you describe the
10 inventions in the '106 patent?

11 A. I would, again, look to the claims.

12 Q. Now, internally within PACT, did PACT have a
13 way of referring to the '181 and the '106 patents?

14 A. Yes. We called that the PACT 03 patent
15 family.

16 Q. Can you explain that?

17 A. We have a lot of patents inside PACT, and
18 some, how shall I say, are similar or based on a similar
19 specification, a similar content. And we grouped those
20 together. And in the PACT 03 family, we have the '106,
21 the '181, and others. I think three, four, five more.

22 Q. All right. So if folks see during this case
23 documents that mention PACT 03, are you talking about
24 the '181 and the '106 patents?

25 A. We are talking mainly about the whole family,

1 the content of the family.

2 Q. Are there more than just the '181 and the '106
3 in the PACT 03 family?

4 A. Yes. I think there are three, four, five more
5 in this family.

6 Q. Let's turn our attention away from the patents
7 and talk to you a little bit more about the history of
8 PACT.

9 A. Okay.

10 Q. Now, I think you mentioned earlier that PACT
11 was formed in '96, after you got some investments; is
12 that right?

13 A. Yes.

14 Q. At some point in time, did you go out and look
15 for more investments for PACT?

16 A. Yes. Once we had the design working on this
17 emulator board, we went out to look for more money in
18 order to implement the first chips.

19 Q. Did you get more money?

20 A. Yes, we did.

21 Q. And what did you do with it?

22 A. We actually implemented these chips. You
23 showed the wafer, so this is what we did with the money.

24 Q. All right. Let me show you Demonstrative 3,
25 and can you explain for us what Demonstrative 3 depicts.

1 A. Yes. This says it's the first generation of
2 our technology, which we call the XPP 1 design, which
3 means the XPP 1 first technology. And based on this
4 technology, we built a chip which was called the
5 XPP 128.

6 Q. Now, just to be clear, was -- this XPP 128
7 chip, did it just have a bus interface and nothing else
8 in it?

9 A. No. Certainly, we had other components in it,
10 our reconfigurable elements.

11 Q. Okay. When did you finish the design on the
12 XPP 128 chip?

13 A. This was -- I remember this well -- December
14 31st, 1999.

15 Q. Trying to get it in before the end of the 20th
16 century?

17 A. Yes.

18 Q. Okay. After you finished the design, what did
19 you do next?

20 A. We went to Fab. Fab is a company which builds
21 those wafers, which actually manufactures the chips, and
22 started with the manufacturing of those wafers.

23 Q. And so is that what we're looking at in
24 Demonstrative No. 2?

25 A. Yes. Exactly.

1 Q. This is a wafer of what?

2 A. Of the XPP 128 chip.

3 Q. Where was this wafer made?

4 A. In Korea.

5 Q. And so if I wanted to use the chips on this
6 wafer, could I take this wafer and plug it in a computer
7 and start using it?

8 A. No. This wouldn't work. You have at first to
9 saw the chips out of that wafer. You see, there are
10 many rectangles on it, so such 1-by-1-inch rectangle is
11 a chip.

12 You saw them out of the wafers, so you get the
13 bare chips, the raw chips, and then you put those chips
14 into a package. And this packaged device is what you
15 can put into a computer.

16 Q. I've got one more toy to show you.
17 Demonstrative No. 4.

18 MR. GRINSTEIN: We're going to put
19 this -- can I have the ELMO, please?

20 Thank you.

21 Q. (By Mr. Grinstein) What is Demonstrative 4?

22 A. This is the XPP 128 chip. If you would break
23 this package, you would find such -- such a chip inside
24 it.

25 Q. Now, was -- this chip I'm holding in my hand

1 right now, was this ready to be sold as a commercial
2 product?

3 A. No.

4 Q. Why not?

5 A. The pads inside the chip were not
6 production-ready.

7 Q. What's a pad?

8 A. A pad, you can understand it as surge
9 protectors, protector for chips.

10 Q. Okay. So even though the pads on this thing
11 were not production-ready, could you test it?

12 A. Yes. You could perfectly test it under the
13 laboratory conditions, or if you are very careful how to
14 handle the chip. So what you are doing --

15 Q. Not a good idea?

16 A. -- throwing it around, would kill it.

17 Q. I'm sorry.

18 So what did you do with these chips which you
19 handled more carefully than I'm handling your chip now?

20 A. We put them on a -- on a demonstrator board
21 and demonstrated them in October 2000 on the
22 Microprocessor Forum in San Jose.

23 Q. San Jose where?

24 A. California.

25 Q. What was the Microprocessor Forum?

1 A. The Microprocessor Forum was, you can say,
2 kind of prestigious gathering of electronic engineers,
3 so all big semiconductor companies like to show their
4 newest designs there. IBM was there, Intel, Texas
5 Instruments, all the big guys.

6 Q. And is that why you went?

7 A. Yes, absolutely. Yes.

8 Q. Okay. Let's take a look at Plaintiff's
9 Exhibit 15.

10 A. 15.

11 Q. Can you tell us what Plaintiff's Exhibit 15
12 is?

13 A. Yes. This is an article which was written
14 about our technology. It says PACT debuts -- debut,
15 sorry -- I'm not sure how it is pronounced -- Extreme
16 Processor. And this was written around the same time.
17 I think it was exactly -- it was exactly the same date
18 when we showed -- when we presented our XPP 128 design.

19 Q. And the first paragraph in this article from
20 Microprocessor Report says: Combine the
21 reconfigurability of an SRAM-based FPGA with a large
22 array of ALUs and you get potential for tremendous
23 flexibility and performance. PACT's new Extreme
24 Processor Platform delivers that combination along with
25 some serious questions.

1 Do you see that?

2 A. Yes.

3 Q. Was that typical of the feedback that PACT got
4 about this XPP 128 chip?

5 A. Yeah, this was very typical. People liked,
6 how shall I say, the new design, the new technology.
7 They liked the high performance which we could deliver,
8 but they were in doubt whether we are too far ahead of
9 the market and whether there was any market for this
10 device.

11 Q. Did PACT receive other good press about its
12 technology?

13 A. Yes, we did.

14 Q. Let's take a look at PX 753, please. You can
15 look up at the screen, if that's a little bit easier for
16 you, Mr. Vorbach.

17 A. Yeah, that's easier.

18 Q. What is PX 753?

19 A. This is an article about nominees named for an
20 award called Most Important Products and Technologies in
21 2002.

22 Q. And on the second page of PX 753, does it
23 discuss PACT?

24 A. Yes. It says PACT's XPP is designed to
25 support multiple parallel threads among its 128 on-chip

1 processing element.

2 Q. So is PACT being nominated for this award?

3 A. Yes, we were.

4 Q. Let's take a look at PX 452. This is this
5 Microprocessor Report again.

6 A. Okay.

7 Q. Is this a really popular magazine in the
8 microchip industry?

9 A. In the microprocessor world, it was.

10 Q. Okay. What's PX 452?

11 A. This is an article about -- about
12 high-performance processor devices.

13 Q. Turn with me to Page 4 of that article. And
14 right there, can you read that paragraph that starts
15 after MPR analysts make their choice, read the first
16 opinions.

17 A. NEC's DRP and PACT's XPU 128 lead all the
18 others in architectural performance by delivering 512
19 byte-operations per cycle.

20 Q. Is that a good thing?

21 A. That's a great thing.

22 Q. Let me show you another exhibit, DX 582.

23 MR. GRINSTEIN: Can we take a look at
24 DX 582?

25 Q. (By Mr. Grinstein) And DX 582 appears to be an

1 e-mail from a Mark Seager around September 2000.

2 Do you see that?

3 A. Yes. Yes.

4 Q. Were you a recipient of this e-mail?

5 A. Yes, I was.

6 Q. Who was Mark Seager?

7 A. He was with Lawrence Livermore National
8 Laboratories located in Livermore, California.

9 Q. That's what that llni.gov (sic) address means?

10 A. Yes.

11 Q. What is Lawrence Livermore National
12 Laboratories?

13 A. It's a U.S. government institution. They
14 have -- yeah, you can say they have the most advanced
15 and fastest supercomputers in the world there.

16 Q. And what did Mr. Seager have to say about
17 PACT's technology?

18 A. You have -- you have very good technology.

19 Q. Said you have good technology?

20 A. Yes.

21 Q. It doesn't say very. Let's not add that in.
22 The -- how did it make you feel when Mr. Seager told you
23 you have good technology?

24 A. I was happy about it. I was proud of it. I
25 mean, it's -- it's a big thing. The Lawrence Livermore

1 Laboratories are, how shall I say, very respected in --
2 in the world. They are simply the -- the most advanced
3 supercomputer center in the world.

4 Q. Well, all this sounds great. Did -- I take
5 it, then, that no one ever criticized PACT's technology
6 and everyone thought it was great?

7 A. No. We also received other articles. I mean,
8 there are always guys on the other side, too.

9 Q. All right. Let's go back to the time of that
10 2000 Microprocessor Forum.

11 Now, this chip right here, this XPP 128, was
12 PACT actually selling this at the forum?

13 A. No. As I said, they were not
14 production-ready.

15 Q. Did it eventually offer to sell it to anyone?

16 A. No.

17 Q. Did you ever manufacturer a commercial version
18 of this chip.

19 A. No, we never did.

20 Q. So this thing was a failure, right?

21 A. I wouldn't say so, no.

22 Q. Well, why not?

23 A. Well, right after the Microprocessor Forum, it
24 was approached by EADS Astrium. This is a European
25 company making satellites and rockets for EADS. EADS is

1 the European you can say counter part to the U.S. NASA.

2 Q. And what did EADS Astrium want with you?

3 A. They wanted to use the XPP 128 on their
4 satellites. The problem they have there is you have
5 very little power there on the satellites. Power
6 dissipation is an issue, and also you require very high
7 performance on the satellites. I mean, it's more
8 performance you can put on the satellite. It's more the
9 satellite can do means you have less satellite launches,
10 which saves you a lot of money.

11 Q. So did EADS Astrium get anything from PACT?

12 A. Yes. They acquired a license from us for the
13 second generation of our design, the XPP II design, and
14 then upgraded the license to the third generation, XPP
15 III.

16 Q. And so are XPP 128 or XPP chips in satellites
17 today?

18 A. The last I heard is that they are launching
19 the satellites or the first satellites this year.

20 Q. And will it actually be a PACT chip that gets
21 launched or PACT design?

22 A. It's a PACT design. They are using our
23 design, our technology, and are implementing their own
24 chips for space applications.

25 Q. If someone were to say in opening that PACT

1 had never licensed its technology and every single
2 person they approached rejected it, would that be true?

3 A. No, definitely not.

4 Q. How long -- so how long has PACT's
5 relationship with Astrium lasted?

6 A. It's still ongoing.

7 Q. All right. One more time pulling us back to
8 the Microprocessor Forum in the year 2000, what was
9 Mr. Munch's relationship with PACT at that time?

10 A. This was about the time that we parted ways.

11 Q. Why?

12 A. Robert Munch felt he has no -- there is no
13 place for him at PACT anymore, and he wanted to go his
14 own way.

15 Q. Are you mad at him for leaving?

16 A. No, absolutely not. This was his personal
17 decision, and I respect that.

18 Q. What was PACT's next project after the XPP 128
19 design?

20 A. PACT started to implement or work on the
21 XPP II architecture and implemented the XPP 64 chip.

22 MR. GRINSTEIN: Can we look at
23 Demonstrative 5, please.

24 Q. (By Mr. Grinstein) What does Demonstrative 5
25 depict?

1 A. Yes. Here you can see it's the second
2 generation of our technology. We called it XPP II, the
3 technology by itself, and produced the XPP 64 chip.

4 Q. And were you personally involved in the design
5 of the XPP 64 chip?

6 A. No, I was not.

7 Q. Well, do you know if PACT ever produced any
8 working XPP 64 chips?

9 A. Yes. We produced working samples of the
10 XPP 64 chip.

11 Q. What did PACT do with them?

12 A. Pardon?

13 Q. What did PACT do with them?

14 A. Those chips were targeting the European
15 telecommunication market. Back in the early 2000s, all
16 the big telecom players were located in Europe, so the
17 chip design was specified together with Siemens,
18 focusing their base stations, their -- how should I
19 explain the base stations -- their antennas, which
20 interface with your -- with your mobile phone.

21 Q. Where was the -- where were the XPP 64 chips
22 made?

23 A. In Grenoble, France.

24 Q. Did you ever sell any XPP 64 chips in the
25 United States?

1 A. No. We did not. This was completely European
2 industry.

3 Q. So I guess you never offered to sell it in the
4 United States?

5 A. No, we did not.

6 Q. So you said you were not involved in the
7 XPP 64 design.

8 What were you doing during the time of that
9 design work?

10 A. I moved already ahead to the XPP III
11 technology.

12 MR. GRINSTEIN: Can I take a look at
13 Demonstrative 6, please.

14 Q. (By Mr. Grinstein) What does Demonstrative 6
15 depict?

16 A. This shows the third generation of our
17 technology, which we called XPP III.

18 Q. And I see that there's not a chip associated
19 with your third design, although there is one with your
20 first two. Why is that?

21 A. We did not build an XPP III chip.

22 Q. So I take it from that, did you ever sell an
23 XPP III chip in the United States?

24 A. Without having one, this wouldn't work, no.
25 We'd never -- we never sold one.

1 Q. Did you have a chip that you could offer to
2 sell in the United States?

3 A. We never -- we never designed one, no.

4 Q. Let me ask two concluding questions on this
5 point.

6 Did PACT at any time ever make, sell, or offer
7 to sell in the United States a product that was an
8 embodiment of the inventions of the '181 patent?

9 A. No. Absolutely not, no.

10 Q. Did PACT ever make, sell, or offer to sell in
11 the United States a product that was an embodiment of
12 the inventions in the '106 patent?

13 A. Also clearly, no.

14 Q. All right. I want to change focus right now
15 and talk about Xilinx.

16 THE COURT: Would this be a good time to
17 break for lunch?

18 MR. GRINSTEIN: I think it would be a
19 great time, Your Honor.

20 THE COURT: All right. Then we're going
21 to break for lunch until 1:15. I'd ask the jury to be
22 back in the jury room at that time, and we'll start back
23 up promptly.

24 Thank you.

25 LAW CLERK: All rise.

1 (Jury out.)

2 THE COURT: Thank you. Please be seated.

3 Before the rest of us break for lunch, I
4 just wanted to find out where we stand with respect to
5 the issue regarding the deposition designation. Is that
6 still a live issue? If not, I'd like to figure out a
7 time to resolve it.

8 MR. GRINSTEIN: I think Your Honor's
9 ruling with respect to the untimely designations
10 resolved the issue.

11 Is that correct?

12 THE COURT: All right.

13 MR. GRINSTEIN: That is an issue off the
14 table.

15 THE COURT: Then we'll return at 1:15.
16 Thank you.

17 LAW CLERK: All rise.

18 (Lunch recess.)

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CERTIFICATION

I HEREBY CERTIFY that the foregoing is a true and correct transcript from the stenographic notes of the proceedings in the above-entitled matter to the best of my ability.

/s/_____
SHELLY HOLMES, CSR
Official Court Reporter
State of Texas No.: 7804
Expiration Date 12/31/12

Date

/s/_____
SUSAN SIMMONS, CSR
Official Court Reporter
State of Texas No.: 267
Expiration Date 12/31/12

Date